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Public Health Action

International Union Against Tuberculosis and Lung Disease Health solutions for the poor

Do incentivised community workers in informal settlements influence maternal and infant health in urban India?

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Setting: The introduction of accredited social health activists (ASHAs, community workers) in the community is encouraged by the Government of India as being of uni-versal benefit for maternal and Intant health.

Objectives: in two informal settlements in Chandigarh, India, one with ASHAs and the other without, we assessed 1) whether ASHAs influenced certain selected maternal and infant health indicators, and 2) perceptions among women who did not contact the ASHAs.

Design: This was a mixed-methods study conducted from April 2013 to March 2016 using quantitative (retrospective programme data) and qualitative (free-listing)

Results: The increase in institutional deliveres from 2013 to 2015 was marginal, and was similar in both areas (86-99% in the settlement with ASHAs and 88-97% in the settlement without). Bacille Calmette-Guérin and pentavalent vaccination coverage were dose to 100% in both areas during the 3 years of the study. Antenatal reg-istration in the first trimester increased from 49% to 52% in the settlement with ASHAs and from 53% to 71% in the settlement without. Between 18% and 35% of women did not complete at least three antenatal visits. 'Not knowing ASHAs' and 'not feeling a need for ASHAs' were the main reasons for not using their services.

Conclusion: While success has been achieved for institutional deliveries and immunisation coverage even with-out the ASHAs, their presence plays an important role in improving antenatal indicators.

he year 2016 ushered in the era of the Sustainable he year 2016 ushered in the era of the Sustainable Development Goals (SDGs), with one target being a reduction in maternal and under-fives mortality. Although global progress has been steady, several coun-tries, including India, are lagging behind target.2 India contributes 21% of childhood and 18% of maternal deaths globally.2

The Government of India encourages specific strategies to improve maternal and child health, of which one is the nationwide introduction of accredited social health activists (ASHAs). First introduced in rural India in 2005 and extended to urban settings in 2013, ASHAs are female community-based volunteers resid-ing in target communities and mandated to conduct various health-related activities for which they receive

performance-based monetary incentives. 42
Although two studies from rural India showed an added benefit of ASHAs in terms of maternal and child health (MCIF) services, 62 these studies were not fo-

cused on urban areas or informal settlements. Access to health services, health-seeking behaviour and the utilisation of existing services may be different in in-formal urban settlements. Understanding the role of community health workers in maternal and infant health services in such settings would be of relevance to India and other large cities around the world where informal settlements are becoming a norm.

We aimed to assess the possible influence of ASHAs on the utilisation of maternal and infant health services in informal settlements in Chandigarh, an urban area of North India. In two of these settlements, specific objectives were to report on trends in 1) antenatal care registrations in the first trimester and completion of at least three antenatal visits, 2) institu-tional and home deliveres, 3) immunisation coverage in Infants (bacille Calmette-Guérin [BCG] and three doses of DPT (diphtheria, pertussis and tetanus) or pentavalent vaccine [diphtheria, pertussis, tetar hepatitis B and Haemophilus influenzae type B[), and 4) maternal, infant and neonatal deaths. We also explored perceptions of women who did not access

METHODS

Study design This was a mixed-methods study.

Study setting

Chandigarh was one of the first planned cities in India, and is known internationally for its urban archi-tecture and design. The geographic area of the city is relatively small, and health facilities are accessible at a radius of 1-2 km from all households. Antenatal care misation services are offered free-of-charge at all health facilities

Maternal and child health indicators and

services in Chandigarh
The health system in Chandigarh is a three-tiered structure. Deliveries are offered only at the secondary and tentary levels. Auxiliary nurse midwives (ANMs) are involved in MCH, and are present at all levels of the health facilities. They are responsible for antenaral and immunisation services at health facility level and for community outreach activities. Another complementary cadre is the Anganwadi workers (AWWs), who work at community-based child centres and promore child care activities, including immunisation. The national antenatal care package and immunisation schedule is shown in Table 1.

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Original Article

Factors associated with high stress levels in adults with diabetes mellitus attending a tertiary diabetes care center, Chennai, Tamil Nadu, India

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ABSTRACT

Objective: We aimed to determine perceived stress levels among adults aged >20 years with type 2 diabetes melitus (DM) in a tertiary care diabetes center, Chennai, Tamil Nadu, India, assess their association with sociodemographic and clinical characteristics and assess the possible risk factors for stress and coping strategies. Methods: A mixed-methods (triangulation design) study with quantitative methodology (survey) and qualitative methodology (intensiews) was carried out. Stress levels were assessed among type 2 DM patients attending a diabetes clinic using a 5-point perceived stress scale-10. One-on-one intensiews were carried out with 876 participants with DM having high/very high stress levels to understand the reasons for perceived stress and explore their coping mechanisms. Results: The prevalence of high/very high stress was 35% among DM patients. Age 80–40 years, working in professional jobs, and lack of physical activity were factors significantly associated with stress. The perceived major stress inducers were related to family, work, financial issues, and the disease itself. Conclusions: This study showed high levels of stress in more than one-third of DM patients. Potential solutions include regular, formal assessment of stress levels in the clinic, providing integrated counseling and psychological care for DM patients, and promoting physical activity.

Key words: Diabetes melitus, India, perceived stress score, physical activity

INTRODUCTION

Diabetes mellitus (DM) is one of the most common noncommunicable diseases in the world. According to the International Diabetes Federation estimates, around 415 million.

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people had DM in 2015 and this number is expected to rise to 642 million by 2040. Around 75% of participants with DM live in low- and middle-income countries. In financial terms also the global burden of DM is enormous, with an estimated annual expenditure in 2015 of USD\$ 673 billion dollars, which constituted 12% of global health spending for that year.

India with 69.1 million people is estimated to have the second-highest number of cases of DM in the world

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Effect of 24-hrs of sleep deprivation on Central Auditory Processing in young people - A Quasi-Experimental study



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ABSTRACT

Background: Adequate amount of sleep is the basic need for survival. It is a well-known fact that disturbed sleep, acute or chronic, deteriorates the homeostasis. Sleep deprivation (SD) produces many adverse health consequences by affecting almost all the organ systems and their functions. However, sufficient literature was lacking on the effect of SD on central auditory processing (CAP), especially the temporal resolution component in young individuals. Aims and Objective: Therefore, this study aimed to investigate the impact of 24-hrs of sleep deprivation on the temporal resolution ability of young healthy night-shift employees. Materials and Methods: It was a Pretest-posttest study design (Quasi-Experimental study) comprising sixty (N = 60) healthy security staff. After the initial survey. Tuning fork tests and Pure Tone Audiometry were performed to rule out hearing loss. Temporal resolution was assessed twice (before and after SD) by Random Gap Detection test (RGDT) where a pair of pure tone was presented at different frequencies with 'intervals of silence' between each pair of tones and average time interval (in milliseconds) was taken. Data analysis was done by SPSS 24 software. Results: There was an increase in RGDT values after sleep deprivation. 10.70 ± 0.46 (Mean ± SD), but the difference was not significant (p-value = 0.5172) when compared with baseline values 10.65 ± 0.48 (Mean ± SD). Conclusion: Based on the research findings, we conclude that 24-hours of acute sleep deprivation didn't show any negative impact on the temporal resolution component of CAP mechanism in young, healthy individuals.

Key words: Central auditory processing: Homeostasis: Pure tone audiometry: Random gap

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INTRODUCTION

detection test: Sleep deprivation

Sleep is a vital biologic process necessary for the survival of all living creatures. In human beings, an adequate amount of sleep is a fundamental requirement in everyday life for maintaining optimal health state i.e. Homeostasis. Existing literature on sleep provides us variety of definitions. In simple terms, sleep is defined as the state of unconsciousness from which a person can be aroused by sensory or other stimuli. Being essential for life, sleep plays an important role in optimal functioning of various physiological processes of nervous, immune, hormonal, cardiovascular, and other systems.

Inadequate sleep or sleep deprivation (SD) is a common problem in modern society affecting almost all humans irrespective of their professions. Numerous factors affect sleep that range from lifestyle factors to various medical conditions. Condensed sleep-time has been associated with many adverse health consequences, which include reduced quality of life, emotional distress, autonomic nervous system imbalance, somatic problems, behavior problems, performance reductions in physical and mental tasks, obesity, hypertension, diabetes mellitus, etc. However, there is a paucity of information on the effect of SD on auditory processing of sound stimuli in young, sleep-deprived adults. Interestingly, by online and

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Journal of Advances in Medical Education & Professionalism

Evaluation of one-month foundation course for the first year undergraduate students at a Medical College in Puducherry, India

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Introduction: Medical Council of India has revised the undergraduate medical curriculum by introducing "Competency-based Medical Education" which emphasizes the foundation course of one-month duration. This period is said to be essential for students to get acclimatized to the new college environment. The present study evaluated the first one-month foundation course

from students and faculty members' point of view.

Methods: The present study was program evaluation. The study participants were all 150 first year medical students joining the college and preclinical department faculty in the academic year, 2019-20. The foundation program was pre-planned and implemented as per the Medical Council of India guidelines. The program was evaluated using a pre-designed questionnaire where the items were aligned with the research question and inputs were obtained from all faculty members. Kirkpatrick framework level I was used for evaluation. Feedback was received from the faculty members by force field analysis and from student's using a five-point Likert scale. A summative approach to the qualitative content analysis was done to identify certain themes from the text data and infer meaning for the force field analysis obtained from the faculty. Considering the high rating for most of the sessions we arbitrarily considered values above 75% to reflect good consensus and below 75% to reflect poor consensus. Consensus measure expressed in percentage was obtained for each item. The quantitative data were analyzed using open Epi info version 7.0. Results: The consensus scores ranged from 73.7 to 83.3 percent The sessions on learning styles, student support system, self-directed learning, communication skills, medical ethics, soft skills, and orientation to health systems in India reflected good consensus, indicating that these sessions were well received by the students. Other sessions like stress management, interpersonal skills, presentation skills, email writing and ethics for mobile usage reflected poor consensus, implying the need for further improvement. As per the faculty perception, good coordination, teamwork, and proper planning at interdepartmental and intradepartmental levels were the key features for the successful implementation of the course. Conclusion: Overall, the sessions in the foundation course were

well received by the students. As felt by both students and faculty, more interactive sessions need to be incorporated. The major strength of the course was the skill module, used to special school, and field visit to the community and primary health center. The findings will help us to improve our next year foundation program to meet the purpose of the Foundation course.

Keywords: Medical students; Medical teaching; Medical college

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Original Article

The Relationship between Non-Linear Analysis of Heart Rate Variability, QTc Interval and Cardiovascular Risk Factors in Young Individuals with Pre-Diabetes

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Abstract

Introduction: Cardiac autonomic functions and cardiovascular risk factors are closely associated with each other. This study aimed to evaluate the cardiac autonomic status employing the Poincaré plot and QTc in young per-diabetic individuals and correlate it with the cardiovascular risk factors. Material and Methods: This was a cross-sectional study. The students participating in the health check-up program organized by the college were the study participants. Basal anthropometric measurements, detailed family, and personal medical history were documented. Autonomic functions were evaluated. Plasma gluctuse and lipid profile were evaluated biochemically. Based on the impaired fasting plasma glucose and impaired glucose tolerance values, subjects were classified as normal and pre-disbetes mellitus groups. Results: A total of 295 subjects (198 normal and 97 per-diabetes mellitus), were evaluated. Standard descriptor 1 and 2 in the pre-diabetes mellitus group reported a significant decrease, p<0.0001, (95% Cl 15.98, 19.07) (95% Cl 31.73 37.26) compared to the normal group (95% Cl 26.33, 30.27) (95% Cl 48.39, \$2.71). QTc was significantly increased in the pre-diabetes mellitus group, p<0.0001, (95% Cl 415.62, 423.99). Body mass index, fasting plasma glucose, and lipid parameters reported as being significant independent variables were associated with autonomic function test parameters. Conclusion: Cardiac autonomic dysfunction starts appearing in the prediabetic stage itself. Body mass index and altered lipid profiles showed a significant association with increased blood glucose levels. Early detection at a young age can help to plan better prevention and treatment strategies.

Keywords: Impaired fasting glucose, Oral glucose tolerance, QTc interval, Heart rate variability.

Introduction

In India, 69.1 million individuals have diabetes. making it the Diabetic Capital of the world [1]. The reasons for the alarming increase may be due to rapid socio-economic and nutritional transition, lack of self-awareness, and follow-up programs in the society. Asper the "ticking clock hypothesis", the microvascular disease manifestation appears in the precursor stage,

before the expression of full-blown clinical type 2 diabetes mellitus [2]. According to the American Diabetes Association, pre-diabetes is Impaired Fasting Glucose (IFG) ranging from 100-125 mg/dL or Impaired Glucose Tolerance (IGT) of 140-199 mg/dL [3]. Pre-diabetes is related to increased cardiovascular (CV) disease and mortality [4]. Evaluation strategies targeting the younger candidates with increased risk will be a potential boon for the society to plan early interventional strategies.



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Case Report

BILATERAL AXILLARY ACCESSORY BREAST TISSUE IN A MALE-A CASE REPORT

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ABSTRACT

Accessory breast tissue (ABT) is more frequent in females compared to male counterparts, commonest presentation being unilateral axillary mass. Presence of bilateral accessory breast tissue in male is a rare occurrence and it is noteworthy due to its need for close follow-ups. We report a case of bilateral axillary accessory breast in a 25 year old male with no other complaints. The importance of fine needle aspirate as diagnostic tool in an unsuspected case of ectopic breast tissue without nipple aerola is emphasised here.

Keywords: Accessory Breast Tissue, Axilla, Fine Needle Aspiration

INTRODUCTION

Accessory breast tissue (ABT) is the presence of a nipple, areola or glandular tissue in addition to the normal pair of breasts (Guray and Sahin, 2006). It is metonym with polymastia, supernumerary or ectopic breast tissue. ABT is more frequently seen along the milk line, axilla being the commonest location. However, an anatomic location outside the milk line should not preclude a diagnosis of ectopic breast tissue, as there are many well-documented, unusual sites of such tissue, including the knee, lateral thigh, buttock, face, ear, and neck (Guray, Sahin, 2006). It may occur unilaterally or bilaterally. It incidence in female (0.4-6%) seems to outnumber its male counterpart (1-3%) (Sahu et al., 2007). There is a drift in the occurence of ABT among the Asian population especially Japanese than Caucasian (Neki et al., 2014). The components of ABT may include nipple, areola, and/or glandular tissue. When nipple-areolar complex is absent, the presence of ABT is difficult to identify. Its development is hormone dependent, similar to normal breast tissue. The functionality of ABT determines its response to physiological hormonal stimulus. Ectopic breast tissue usually arises sporadically, however, a hereditary predisposition has also been reported (Nirmala et al., 2010).

CASE

A 25-year-old male presented to surgery out patient department of GTB hospital with history of bilateral axillary swellings for past 5 months. Swelling was gradually increasing in size and was associated with mild pain. A clinical diagnosis of bilateral axillary lymphadenopathy was offered. Examination of both axillary regions revealed a mildly tender, soft and mobile swelling measuring 1.5 X 1.5cms and 2 X 2cms on left and right sides respectively. The swelling was placed in the subcutaneous plane. Fine needle aspiration was attempted from both sides using 23 gauge needle attached to 10 ml syringe. FNA from left side yielded fluid mixed aspirate with few fragments of tissue, while from right side it was predominantly blood mixed aspirate. Two air dried May Grunwald Giemsa (MGG) stained and 1 alcohol fixed papaniculou stained smears were made from both sides.

Fine needle aspirate from both left and right axillary swellings were cellular with uniform monolayered sheets of benign ductal epithelial cells along with few darkly staining myoepithelial cells in a fluid background (Fig 1, 2). Cytomorphological features were consistent with benign breast tissue in accessory location. Since the swelling was recent in onset (past two months only) gynecomastia was suspected and the patient was reexamined. However his bilateral breasts were not enlarged. They were normal looking with no other complaints. To find out cause of gynecomastia in accessory breast a detailed history and clinical examination was done. He was not taking any drugs that could induce gynecomastia. The patient

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Original Research

Comparison of nerve conduction parameters in type 2 diabetic subjects: recently diagnosed versus chronic diabetes

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Abstract

Introduction: Diabetes mellitus (DM) is one of the major non-communicable diseases and may cause blindness, renal failure, and non-traumatic limb amputations in chronic condition. Periodic clinical assessment with supportive electrophysiological tests is highly recommended for early diagnosis of peripheral neuropathy in diabetic patients. Materials and Methodic in order to compare the nerve conduction study parameters on diabetes with two different durations of the disease, the recruited diabetic patients were divided into two groups, Group II - Recently diagnosed type 2 diabetes (within 1-2 years) and Group III -chronic diabetic patients with more than 5 years of disease. Nerve conduction study was done with RMS-EMG machine and latency, duration, and amplitude parameters of sural nerve conduction recordings were measured. The significance of study parameters between groups was analyzed by using independent sample "t" test. Results: There is no statistically significant change in the latency, amplitude, and conduction velocity of the sural nerve among the aforesaid study groups.

Keywords: Diabetic neuropathy, nerve conduction study, sural Nerve.

Introduction

Type 2 diabetes is a major public health issue and the expected worldwide diabetes population could surpass 640 million by the year 2040 [1]. India and China together have become a global epicentre of the diabetic epidemic as 60% of the world's diabetic population is from Asia [2]. Microvascular complications such as nephropathy, neuropathy, and retinopathy and macrovascular complications such as stroke, and peripheral artery disease are common among chronic diabetics and accountable for significant morbidity and mortality [1].

Diabetic neuropathy involves damage in sensory, motor, and autonomic nerve fibres and accounts for 28% complications in diabetics [3]. It is the crucial risk factor in 90% of diabetic foot ulcers [4] and foot ulceration is the first indicator in diabetic patients, who underwent non-traumatic lower-limb amputations later [5]. As the appearance of symptoms of diabetic neuropathy occurs after a long duration of disease, it is imperative to identify diabetic neuropathy in the early stage itself. Clinically, the monofilament test, vibration test, tests for pinprick sensation, and ankle reflex are generally employed in the diagnosis of diabetic neuropathy [4]; however, electrophysiological studies help us to detect early abnormalities in diabetic patients that may not be clinically apparent [6].

Nerve conduction study is a widely used electrodiagnostic test to assess the nerve functions in diabetic neuropathy, which affects the nerve conduction velocity, amplitude, and latency. As the complications of neuropathy show its symptoms after many years of diabetic duration, we wanted to know whether the neurophysiological

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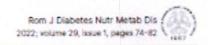
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Original Research

The efficacy of isometric handgrip training on arterial stiffness and blood pressure in elevated and stage 1 hypertensive individuals - An interventional study

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Abstract

Objectives: Hypertension is considered a risk factor for cardiovascular diseases. Various forms of exercise are recommended for the pre-hypertensive stage as a prevention measure. The objective of the study was to evaluate the effect of isometric handgrip resistance exercise on blood pressure (89) and arterial stiffness in elevated and stage I hypertensive individual. Materials and Methods: In this interventional study, 50 pre-screened pre-hypertensive individuals participated in the isometric handgrip exercise training. Participants were instructed to follow 40% maximum voluntary contraction (MVC) with three sessions per week for 8 weeks. BP and vascular indices namely reflection and stiffness indices were measured and compared before and after the exercise. Results: Forty individuals participated in the program and were divided into two groups: Group I (n=21) with elevated BP and Group II (n=19) with stage 1 hypertension. Our study report indicates that the systolic BP was significantly decreased in both the groups (p=0.001) while diastolic BP decreased only among the elevated BP group (p=0.01). Vascular indices did not report any significant change in both groups. Systolic (p=p<0.001), disatolic (p=0.03), pulse pressure (p=0.001) and mean arterial pressure (p<0.001) were significantly reduced when both the groups were taken together for the analysis. Heart rate was a significantly positive correlation with the vascular indices (pc0.001), similarly, diastolic BP was significantly positively correlated with stiffness index (p-0.001). Conclusion: Isometric handgrip exercise with 40% MVC with three sessions per week for Sweeks is effective in reducing the BP levels but has no effect on arterial stiffness. Thus, this form of exercise can be recommended for the young pre-hypertensive.

Keywords: isometric handgrip exercise, elevated blood pressure, stage I hypertension, pre-hypertension.

Introduction

Hypertension is referred to as a "silent killer" since it may not produce any warning signs and symptoms and is the major cause of premature deaths globally and is also associated with cardiovascular diseases. The precursor stage was named by the Joint National Committee on prevention, detection and treatment of

high blood pressure as 'pre-hypertension' [1] in 2003, which has been further re-classified as "elevated" and "stage 1" hypertension in 2018, by the American Heart Association Task Force in 2017. In view of the increasing trends in hypertension in young individuals, blood pressure assessment in all young individuals at every opportunity is both prudent and justified. Non-pharmacological therapies are recommended for elevated and

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Association of Anti-TPO Antibodies with Insulin Resistance and Dyslipidemia in Hashimoto's Thyroiditis: An Observational Study on South Indian Population

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ABSTRACT

Introduction: Hashimoto's Thyroiditis (HT) is a frequently observed autoimmune thyroid disease and the commonest cause of hypothyroidism. Although the association of hypothyroidism with cardiovascular risk is a well-documented fact, it is still not clear as to whether thyroid autoimmunity is an independent risk factor for atheroscierosis, a cardiometabolic risk factor.

Objective: In this study, we attempted to elicit the probable association of Anti -Thyroid peroxidase (Anti-TPO) antibodies with cardiometabolic factors (Insulin resistance and dyslipidemia) in patients.

Methods: In this observational study, sixty-five healthy controls and sixty-eight HT patients were enrolled. Serum concentrations of TSH, FT4, FT3, (Anti-TPO), Total Cholesterol (TC), Trigtycerides (TG), HDL-Cholesterol (HDL-C), Very Low-Density Lipoprotein (VLDL), Fasting Blood Glucose (FBG) and Fasting Insulin levels were measured. LDL-Cholesterol (LDL-C), HOMA-IR and Atherogenic Index of Plasma (AIP) were calculated.

Results: There was a significant increase in TC, TG, LDL, VLDL, AIP, Fasting insulin and HOMA-IR among the HT group (P < 0.001) compared to healthy controls. Despite a significant positive correlation between Anti-TPO antibodies and TC, LDL, Fasting insulin, HOMA-IR, Anti-TPO was found to be independently associated with AIP as revealed in Regression analysis, which unequivocally demonstrates the cardiovascular risk in HT.

Conclusion: The findings of the present study point to the implication of thyroid autoimmunity in insulin resistance and dysliptdemia, independent of thyroid function in patients with HT. Thus, the assessment of lipid profile variables and insulin resistance possess value in the treatment and management of HT patients.

Key Words: Hypothyroidism, Thyroid autoimmunity, Anti-Thyroperoxidase antibodies, Hyperlipidemia, Insulin resistance, Cardiovascular disease risk

INTRODUCTION

Hashimoto's Thyroiditis (HT) is a genetic autoimmune disease, characterized by the destruction of thyroid cells by celland antibody-mediated immune responses! and is regarded as the commonest cause of hypothyroidism. HT has a prevalence rate of 1-4% and found to be more common in women and increases with age. If Elevated circulating antibodies to thyroid antigens is a characteristic feature in HT patients, of which anti-thyroid peroxidase antibodies (anti-TPO) being the most specific and sensitive for the diagnosis of the

disease. Several studies have found that hypothyroidism is associated with insulin resistance, dyslipidemia and chronic inflammation and in turn, increases the risk for atherosclerosis. **Though the exact mechanism of the atherosclerotic process in hypothyroidism remains to be delineated, few studies suggest the role of thyroid autoimmunity in atherosclerosis, independent of thyroid function. **Inflammation observed in HT may induce alterations in lipid metabolism, contributing to the increased risk of atherosclerosis. *Few studies have reported insulin resistance in hypothyroid state ****. whereas, a few other studies failed to demonstrate the relationship.****

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DOS TO SEED CONTRACTOR (SHEET) Original Article

Role of Pleural Fluid C-Reactive Protein in the Aetiological Diagnosis of **Exudative Pleural Effusion**



PRIVEEN RACHAKRISHNAN', S MATHANRAJ

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Introduction: Pigural effusions, the result of the accumulation of fluid in the pleural space, are a major diagnostic problem due to its anatomical nature with no direct access. There is variation in management, depending on the pleural disease. The pleural effusion can either exhibit specific or nonspecific characteristics.

Aim: To determine the clinical significance and diagnostic tole of pieural fluid C.-Reactive Protein (CRP) level in the aetiological diagnosis of acudative pleural effusion.

Materials and Methods: This was a cross-sectional study performed during the study period of September 2013 to December 2014. A total of 53 Patients identified with pieural effusion were recruited in the study and pleural fluid was subjected for the measurement of CRP level. Pleural fluid CRP was assessed with CRP-Turbilatex-Quantitative turbidimetric immunoassay method which is based on the principle agglutination reaction. The data was subjected to statistical analysis using Epi into software version 3.4.3. The Receiver Operating Characteristic (ROC) curve

was plotted to illustrate the diagnostic ability. The smallest outoff value was the minimum observed test value minus 1, and the largest out-off value was the maximum observed test value plus 1. All the other cut-off values were the averages of two consecutive ordered observed test values.

Results: Among the 53 patients in the study, 42 had exudative effusions (79.20%) and 11 had transudative effusions (20.80%). The common cause of exudative effusion was tuberculosis 26 (61.90%), followed by 9 malignancy (21.40%) and 7 parapneumonic effusion (16.70%). In our study, the pieural fluid CRP was statistically significant (p<0.001) marker to differentiate exudative effusions with CRP-value <30 suggestive of malignancy, CRP-value 30-50 mg/L suggestive of tuberculosis and CRP-value >70 mg/L suggestive of parapneumonic affusions.

Conclusion: Determination of pigural fluid CRP is a useful diagnostic marker for differentiating exudative and transudative effusions. Also, Pieural fluid CRP is a statistically significant marker in differentiating tubercular effusions from nontubercular exudative effusions

Koywords: Paraproumonic offusions, Pulmonary luboroulosis, Thoracontasts

INTRODUCTION

Pioural effusions are abnormal collection of fluid in the pleural space, manifestated in pulmonary, ploural or extra-pulmonary disease [1]. Approximately, 0.1 to 0.2 mL/kg of fluid produced in the pleural leaves tacilitates the normal pieural movements. In certain clinical conditions there might be imbalance between the production and reabsorption of this fluid which may eventually leads to pieural fluid collection. Mechanisms of pieural offusion includes increased hydrostatic pressure, decreased oncotic pressure and increased permeability in the microvascular diroulation in association with increased negative pressure in the pleural space followed by separation of ploural leaves, decrease in lymphatic drahage capacity and transition from the abdomen to the thorax [2,3]

Degrestic approaches in plaural offusion include, Radiology (conventional radiography, ultrasonography, computerstrod tomography), Thoracentests pioural fluid analysis), dissed pioural biopsy and video assisted thoracoscopic biopsy. Currently, Light's ortions are being used to differentiate pioural fluid into transuciates and counteless. However, counteling offusions are further commonly classified into tuberoular, perapreumonic and malignant effusions. As of now plaural fluid Adenostria Deeminase (ADA) is being used for differentiating tuborouter effusion from other coudstive offusions. There is a specified out-off for ADA (>45 ILI) to suggest tubercular efficience (4,5).

The aetiology of effusions varies according to presence or absence of tuberculosis, to achieve a specific diagnosis, more informative tests are required. Biochemical, microbiologic and cytological analysis of pleural effusion are the fundamental studies to determine the aetiology of the effusion but it is not easy to find the main cause every time. Therefore, several

biomarkers have been suggested to help in differential diagnosts. Procalcitonin, Amyloid A and CRP are well known acute-phase proteins and the results of these have lately been proposed to use for differentiation of infectious diseases from other origin of ploural offusion [6].

A number of markers are being currently tested, of which plaural fluid CRP lovels have gained attention. As of now very few studies have focused on CRP levels in pieural effusion [7-9], increased production of this protein is triggered by cytokines, ILE, TNF and IL1, released by inflammatory colls [10]. The current research focused to determine the clinical significance and diagnostic role of pleural fluid CRP lovel in the autological diagnosis of exudative pleural effusion.

MATERIALS AND METHODS

A cross-sectional study was performed during the period of September 2013 to December 2014 with the prior approval from the Institutional Review Board of Srt Manakula Vinayagar Modical College and Hospital, Puducherry with IEC Code No: 81/2013.

inclusion criteria: The patients who presented to the pulmonary medicine OPD and were diagnosed with the presence of pulmonary infactions associated with acute tabrile liness, pulmonary infiltrates, purulant sputum and response to antibiotic treatment, identification of the organism in the plaural fluid; or the presence of emphysema, associated with the finding of trank pus in the pleural cavity with ploural affusion were included in the study.

Exclusion critoria: Patients below 10 years of age, patients in emergency ward, critically III and patients who were not willing to participate in the study were excluded.

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Voluntary Body Donation-Knowledge and Perspectives among Healthcare Workers in Southern India

Aratery Section

PRYMOHARSHINI ADIKESAMAN NATTALAMI, BHAWANI PRASAD CORIPARTHP, REMA DEVI RAJACOPAL³



ABSTRACT

introduction: Cadaveric dissection is an integral part of teaching anatomy. In a developing country like India, where many medical institutions are on the cusp of growth, procuring cadavers leads to a great challenge. The major source of cadavers is unclaimed bodies, followed by a meagre number by the way of voluntary body donation. It is the call of the hour to encourage people to go in for voluntary body donation.

Aim: To document legal and In-depth knowledge and attitude about body donation among healthcare professionals.

Materials and Methods: This was a cross-sectional study conducted during October 2017 to August 2018. A prevalidated, semi-structured questionnaire was used to assess the knowledge and attitude among 75 medical professionals and 75 healthcare assistants at Pondicherry, India. Data was analysed by descriptive hospital in Pondicherry, India. Data was analysed by descriptive statistics using Statistical Package for the Social Sciences (SPSS) statistical version 21.0 for windows, and results expressed as percentage of the total study population. The Chi-square test was used to compare variables between doctors and healthcare assistants and p-value <0.05 was considered as significant.

Results: Even though 96.7% of healthcare professionals were aware of body donation, only 66.3% doctors had adequate

knowledge about legal aspects. This was much low among healthcare assistants (38.7%). All participants accepted that body donation enhances medical advancement, but only 17% of doctors were willing to donate. On the contrary, 47% of doctors and 40% of healthcare assistants expected the general public to donate (p=0.02). Although many influencing factors, 68.7% (75% doctors and 62% healthcare assistants) inferred that religion was not a barrier and participants of extreme ages (22.5 and 22%) were willing to engage in this altruist act. The major psychological frontier was depersonalisation of self by dissection of his or her own body (63% among doctors).

Conclusion: The study revealed that lacunae regarding the legal aspect of body bequeathing prevail among healthcare professionals that need to be ourtailed by providing adequate knowledge through seminars and continuing medical education programs alming to healthcare professionals including healthcare assistants who bridge the gap between the medical professionals and common people. So, the reflection of knowledge and attitude of healthcare assistants are also considered crucial for winning the noble theme of "voluntary body donation." Breaching the psychological barrier, depersonalisation of self and motivation would be the dawn of voluntary body donation.

Keyword s: Anatomical act, Body bequest, Healthcare professionals, Psychology

INTRODUCTION

The cadavaric dissection is the optioms of modical education as it fulfils all the domains of learning [1]. In true sense, it facilitates a higher level of learning, that is, perception and interpretation. Because of which cadavaric dissection remains to be the spine of anatomy learning [2]. This "Anatomical Act" was established by many states of incles, which helps the modical colleges to procure cadavars for dissection. Unclaimed bodies remain to be the major source of cadavars in medical aducation and body bequest remains to be meagre [3]. Body donation became sublime because of the lack of awareness among the common public due to superstitions [4]. The medical profession stands still without dissection, but the perception and attitude toward body donation among this community is also questionable.

There is a gap between medical professionals and common people regarding the awareness of body donation [3]. Many factors such as ago, religion, outural variations, personality differences, views regarding death and mortality, body image concerns, and humanitarian values can have an influence on peoples' mindset toward body bequest [5]. A voluntary body donation is an act of conferring one's body for medical teaching and research, it denotes a determined mind and a pious soul dedicated to help humanity through medical sciences [1]. The attitude of potential donors and their relatives toward body donation is the major influencing factor for the procurement of donor bodies.

The prime beneficiary of this noble act are the doctors who should be expected to be beyond social, cultural stigma, and fear of body donation. Many studies were reported to assess the knowledge, attitude, and practice of whole body donation among the people of different social and cultural backgrounds [5,7]. Basic knowledge of voluntary body donation is not suffice in achieving willed individuals into voluntary body donors, it also includes legal knowledge [8].

The study highlights the legal knowledge and attitude regarding whole body donation among the gamut of the healthcare system in India, including the healthcare assistants, whose role is crucial in bridging the lacunae between the doctor-patient relationships.

MATERIALS AND METHODS

This was a cross-sectional study conducted from October 2017 to August 2018, at Pondicherry Institute of Medical Sciences, Pondicherry, India, among healthcare professionals who were medical graduates, postgraduates, superspecialists and healthcare assistants including staff nurses and nursing faculties. As it was designed to assess the in-depth knowledge regarding body donation among healthcare workers, anatomists, and toronsic experts, who might be well-aware, were excluded.

The sample size was 150, calculated by the formula N=Z pq/d, P=60%, Le., antidipated provelence of adequate knowledge, q=1-p,

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Fetomaternal trauma in instrumental deliveries - a retrospective comparative study

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Abstract:

Objective: This study was undertaken to compare the fatomatemal trauma in forceps and vacuum deliveries. Methods: 103 forceps and 103 vacuum deliveries considered in this retrospective study. Maternal outcome is assessed in terms of episiotomy extension, vaginal tears, cervical tears, exploration and repair under anesthesia, blood transfusion, vulval hematoma puerperal pyrexia, and maternal mortality. Fetal outcome is assessed in terms Apgar score, respiratory distress, birth asphyxia, meconium aspiration syndrome (MAS), necrotizing entercolitis, hypoxic ischemic encephalopathy (HIE), hyperbilirubinemia, infection, duration of neonatal intensive unit (NICU) stay, birth injuries and infant mortality. Results: 85°s of instrumental deliveries were conducted by consultants and 15% by residents. Decision to delivery interval was significantly lower in forceps compare to vacuum deliveries. Episiotomy extension and vaginal tears were significantly higher in forceps compare to vacuum. There was no significant difference in cervical tears, exploration and repair under anesthesia, blood transfusion, puerperal pyrexia, sepsis and maternal mortality. Apgar score, respiratory distress, birth asphyxia, MAS, necrotizing entercolitis, HIE, hyperbilirubinemia, infection, duration of NICU stay and infant mortality was not significant between 2 groups. Conclusions: Vacuum delivery is associated with less maternal trauma compare to forceps delivery with no difference neonatal outcome. Skill training for instrumental deliveries with modern education tools, simulators and hands on training for residents is need of the hour to achieve maternal and neonatal safety. Reasonable judgment in choosing cases along with skilled operators can reduce unwarranted caesarians in second stage.

Keywords: Maternal outcome, neonatal outcome, respiratory distress, birth asphyxia, episiotomy extension, vaginal tears, cervical tears, 3rd degree perineal tear, complete perineal tear.

Instrumental delivery is safe option for practicing modern obstetrics in second stage of labor. It is an essential skill for practicing obstetrician to reduce maternal and neonatal morbidity in second stage. Complications of delivery and obstructed labor accounted for 9.6% of all maternal deaths worldwide. World has seen decreasing trend in instrumental deliveries with the rise of caesarian section rate. Data from UK 2 stated that, the instrumental deliveries are 10% which has been constant since several years with preference to vacuum delivery. Instrumental deliveries have key role in reducing maternal and fetal morbidity but compare to developed countries it is underused in developing world. The reasons for decreasing trend are being fear of litigation, lack of skill training, availability of

Nitya R. Veena KS, Rajeswari R. Fetomaternal trauma in instrumental deliveries - a retrospective comparative study. The New Indian Journal of OBGYN. 7th September 2020. Epub Ahead of Print.

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IJPRP

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Original Research Article

Study of Association Between Human Epidermal Growth Factor Receptor 2/ neu Expression With Modified Bloom Richardsons Grading in Breast Cancer at A Tertiary Care Hospital Puducherry

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Abstract

Context: Breast cancer is the most common malignancy in females. Advancement in cancer management had lead to early detection and treatment of disease. Recently Immunohistochemistry plays an vital role in the classification of breast cancer. Estrogen Receptor/Progesterone Receptor and Human epidermal growth factor receptor/neu (Her2/neu) status provides prognostic and therapeutic information. Aims: This study is done to find the association between Her2/neu by immunohistochemistry and various clinicopathological factors in breast cancer. Study design: The present study is a cross sectional study. Material and Methods: Forty patients who were diagnosed to have carcinoma breast cancer patient underwent Modified radical mastectomy were included in the study. The surgical specimen were then evaluated histopathologically using modified Bloom Richardsons grading and immunohistochemically for Her2/neu markers. Results: In the present study most of the cases were aged between 50-60 years. The mean age of presentation was 52.4. The most common histological type were infiltrating ductal carcinoma no special type, constituting 35 (87.5%). Grade II tumours were seen in 57.5%. Her2 was positive in 16 cases (40%), and it was negative in 26 (60%). Among the positive cases 14 cases were of Grade III. Lymphovascular involvement was seen in 15 cases. Conclusion: This study emphasize the need of Her2/neu in routine histopathological report in breast cancers. Her2 positivity increased as the tumour Grade increases and also had increased lymphnode involvement, lymphovascular invasion with poor prognosis.

Keywords: Breast cancer; Human Epidermal Growth Factor Receptor2/neu; Tumour grade.

How to cite this article

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Introduction

Breast cancer is the most common malignancy in females, every year more than 1 million women are diagnosed with breast cancer.' Invasive ductal carcinoma of no special type (NST) is the most common histological type accounts for 60-80% of all cases of breast carcinoma.²

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Microbial Pattern of Acute Exacerbation of Chronic Obstructive Airway Disease - A South Indian Hospital Based Study.

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Abstract

Beologround: Chronic Obstructive Pulmonary Disease (COPD) is a chronic disease which is characterized by persistent airflow limitation and enhanced chronic inflammatory response in the airway of lungs with frequent exacerbation. The ethology and antibiotic sensitivity have been changing over the years. This study determines the microbiological pattern of sputum and antibiotic sensitivity among COPD patients admitted in a tertiary care Hossital.

Material: and methods: In this cross sectional study, 60 patients admitted with acute exacerbation of COPD were included and sputum culture and sensitivity studied for most common pathogen and antibiotic sensitivity.

Results: Klebsiella precumoniae was the most common organism isolated. Meropenem was the most sensitive antibiotic and most resistant antibiotic is Ampicillin. Males were more commonly affected (66.7%) of which 58.5% were smokers and 41% were non-smokers, females were 33.3%, majority due to biofuel exposure. These results were found to be statistically significant.

Conclusion: Klebsiella pneumonia was the most common organism isolated, followed by pseudomonas. Both the organisms were maximally sensitive for meropenem and inspenam; and were more resistant to ampicillin. Selection of antibiotics should be based on local prevalence of bacterial organisms and their sensitivity by sputum culture for faster recovery and decrease in the mortality and morbidity.

Keywords: COPD, ACUTE exacerbation, antibiotic resistance, most common organism.

Date of Submission: 29-12-2020 Date of Acceptance: 10-01-2021

I. Introduction:

Acute exacerbation of COPD (AECOPD) is sustained worsening of the patient's condition, from the stable and beyond normal day-to-day variations, that is acute in onset and necessitates a change in regular medication in a patient with underlying COPD (Rodriguez-Roisin 2000). AECOPD is associated with decline in health related quality of life, major cause of mortality and also of decrease in Forced expiratory volume in 1 second (FEV1), 7mi/yr for mild and 40 ml/yr for moderate to severe disease. (4)

COPD is the third leading cause of death. Infective etiology is the major cause of exacerbation in COPD patients presenting to hospital, among the causative agents 40% are bacterial. Empirical antibiotic treatment leads to resistance to frequently used antibiotic and necessitates use of higher antibiotics. The choice of antibiotic should be based on local bacterial sensitivity pattern.

II. Materials and Methods

A hospital based cross sectional study was conducted in department of General medicine and Respiratory Medicine department in a tertiary care centre, Pondicherry from for a period of 3 months from May 2019 to July 2019. A total of 60 (both male and female) of age > 18 years were included in this study. Study Location: This was a tertiary care teaching hospital based study done in Department of General Medicine and Respiratory Medicine, Sri Manakula Vinayagar Medical College and Hospital, Pondicherry. Study design: Hospital based cross-sectional study.

Study Duration: May 2019 to July 2019.

Sample size: 60 patients.

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Original Research Article

A study to compare the effect of postoperative analgesia between intraperitoneal instillation of ropivacaine and bupivacaine in laparoscopic surgeries

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Abstract

Background: Laparoscopic techniques have revolutionized the field of surgery with benefits that include decreased postoperative pain, earlier return to normal activities following surgery, and fewer postoperative complications Management of postoperative pain relievers suffering and leads to earlier mobilization, shortened hospital stay, reduced hospital costs, and increased patient satisfaction. Objectives: To measure Postoperative Analgesia of Introperitoneal Instillation of Ropivacaine and Bupivacaine in Laparoscopic Surgeries by using time to first request of analgesia Methodology: The present study was conducted at Sri Manskula Vinus agar Medical College and Hospital, Pondicherry in the Department of Anaesthesia. The double blinded randomized experimental study was conducted from October 2017 to May 2019. The sample size of 50 study subjects was selected using the mean pain score at 3.6 with 80% power and 95% confidence interval. In each of the group 25 study subjects were allotted based on randomization. All patients were instilled with 30 ml of solution in a standardized manner by the operating surgeon under vision before removal of trocar at the end of the surgical procedure. Group R received 30 ml (0.2%) repivacaine and group B received 30 ml (0.25%) bupivacaine. The drugs were prepared and given to the investigator who was blind to the identity of drugs. Results: Both the study groups were comparable in terms of age, no significant difference was observed between the groups No significant association was observed between pain score and the study groups at 60 and 120 mins. Significant association was seen at 8,12 and 24 hrs. Conclusion: Pain scores were not significantly different between the study groups till 4 hours, however, higher pain scores were noted in Bupivacaine group thereafter. Also, this difference in pain scores between the study groups after 8 hours was found to be statistically significant.

KEYWORDS: Pain, Vas Score Bupivacaine, Laprotomy Intraperitonical

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Dr Sammiga Priya K, Assistant Professor, Department of Americhesiology, Sri Manakula Vinayagar Medical College and Hospital, Puduchery, Email: privakarman@email.com Received Date: 20/06/2020 Revised Date: 13/07/2020 Accepted Date: 23/08/2020

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INTRODUCTION

Laparoscopic techniques have revolutionized the field of surgery with benefits that include decreased postoperative pain, earlier return to normal activities following surgery, and fewer postoperative complications (eg. wound infection, hernia). However, unique complications are associated with gaining access to the abdomen for laparoscopic surgery. Inadvertent bowel injury or major vascular injury is uncommon, but both are potentially lifethreatening complications that are most likely to occur during initial access, 1,2,3

Jiju Amoery A, Sammuga Priya K, Sunceth P Lazarus, Suresh Ku ar K, Suresh Anand B S. A study to con critoneal instillation of ropic acaine September 2020; 15(3): 140-144

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Eurorad • •

A case of mitotically active cellular fibroma

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DOI: 10.35100/eurorad/case.17009

ISSN: 1563-4086

Section: Genital (female) imaging

Area of Interest: Genital / Reproductive system female

imaging Technique: MR

Special Foous: Tissue characterisation Case Type:

Clinical Cases

Authors: Dr. Vasanthapriya Janarthanan, Dr. Anand.A.M., Dr. Elampridhi Padmanabhan, Dr. Kulasekaran Nadhamuni, Dr. Umamageswari

Amirthalingam.

Patient 32 years, female

Clinical History:

A 32-year-old, P2 L2, sterilised female presented with complaints of irregular menstrual cycles since 1 year.

Per abdomen shows a palpable mass arising from the pelvis of about 28 weeks, with well-defined lower border. On investigation (Cancer Antigen) CA125 -8.9 (N-Normal); (Carcinoembryonic antigen) CEA-4.71(Increased); (Lactate dehydrogenase) LDH-218 (N).

Imaging Findings:

On ultrasound, a well-defined heteroechoic solid abdomino pelvic lesion of size approximately 16.8 x11.4 x17.3cm noted with cystic degeneration and no significant vascularity. Left ovary was not separately visualized.

Contrast enhanced magnetic resonance imaging (MRI) showed a large well defined T1 hypointense (FIGURE 1), T2 hyperintense (FIGURE 2) and heterogeneously enhancing abdominopelvic lesion (FIGURE 3) predominantly solid with few necrotic foci approximately measuring 19.2 x 14.1 x 9.2cm seen, likely to be left ovarian origin as it was not separately visualized (FIGURE 4).

Then the patient was planned for surgery with intraoperative frozen section which was suggestive of ovarian fibroma with unknown malignant potential. Hence proceeded with hysterectomy with bilateral salpingo opherectomy.

intra operatively, a 18 x 12cm left ovarian solid tumor was found (FIGURE 5a,b).

Postoperative histopathological examination confirmed the diagnosis as ovarian cellular fibroma with mildly enlarged nuclei and occasional miltotic figures (4/10 high power field HPF) (FIGURE 6,7). No evidence of necrosis.

Disoussion:

Fibroma is the most common benign ovarian tumour, approximately comprising 4 % of all ovarian neoplasms. It affects any age group of patients who usually presents with abdominal mass and irregular menstrual cycles. The cellular fibroma is usually a solid, unliateral tumor of uncertain malignant potential which depends on cellularity, mitotic activity and nuclear atypia [1]. It was classified into benign fibroma and malignant fibrosarcoma previously.

[2]. In some studies, patients with ovarian fibroma were found to have elevated tumour marker i.e. CA-125. Surgical removal of only solid ovarian tumours is recommended because of the low probability of malignancy.

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Eurorad • •

Loculated pseudomyxoma peritonei – an imaging mystery

Published on 28.10.2020

DOI: 10.35100/eurorad/case.17017

ISSN: 1563-4086

Section: Abdominal imaging

Area of Interest: Genital / Reproductive system female

Peritoneum

Imaging Technique: CT Case Type: Clinical Cases

Authors: Umamageswari Amirthalingami, Elamparidhi Padmanabani, Yash Kumar Achantanii, Rajkumar Subramaniami, Pugazhendhi Sambathi, Kulasekaran

Nadamuni t

Patient: 44 years, female

Clinical History:

A 44-year-old female presented with abdominal distension of 2 months duration which is insidious in onset and gradually progressive in nature. Physical examination revealed distended abdomen with an ill-defined non-tender abdominopelvic mass.CA 125 was 60.1 U/ml.

Imaging Findings:

Plain abdominal radiograph showed an ill-defined mass lesion in right lumbar region and illac fossa (Figure 1).

Ultrasound examination revealed an abdominopelvic cystic mass lesion of size about 22 x 20 x 15 cm occupying the right illac fossa and lumbar region. The lesion showed thick wall and internal septae, low-level internal echoes and scattered calcifications.

Contrast-enhanced Computed Tomography (CECT) showed a multiloculated abdominopelvic mass of size 24 x 20 x 14 cm Linear and confluent calcifications noted (Figure 2). No enhancing solid components (Figure 3). Multiple septae noted, with a maximal thickness of 4 mm (Figure 4). Mass effect was seen over the ascending colon, terminal lieum and right distal ureter with mild hydroureteronephrosis. Minimal ascites noted; no scalloping of hepatic surface (Figure 5). No omental thickening or nodules. Appendix not visualized separately. The findings were interpreted as malignant mucinous cystic right ovarian neoplasm.

Discussion:

Patient underwent cytoreductive surgery. Intraoperative findings: 30 x 30 cm mucinous mass at the appendiceal tip adherent to peritoneum and right ovary (Figure 6). Multiple subcentimeric deposits over the pelvic peritoneum and anterior rectal wall seen. Histopathological examination revealed low grade mucinous neoplasm of appendix and borderline mucinous neoplasm of ovary with pseudomyxoma peritonel (PMP) (Figure 7). Immunohistochemistry revealed CK7 positivity suggesting ovarian origin.

PMP is characterized by accumulation of mucinous ascites within the peritoneal cavity. The incidence is 1-3 in a million cases per year [1] PMP is usually associated with mucinous neoplasm of appendix. However tumours of large and small bowel, ovary, breast, stomach, galibladder and lung are also known to be associated with PMP. PMP occurs due to rupture of the mucin producing lesion into the peritoneal cavity leading to extensive peritoneal fibrosis, thickening and adhesions. Mucinous ascites, peritoneal, serosal and omental mucinous deposits are also noted.

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High grade abdominal lymphoma with secondary pancreatic involvement mimicking tuberculosis

Published on 02.02.2022

DOI: 10.35100/eurorad/case.17615

ISSN: 1563-4086

Section: Abdominal imaging

Area of Interest: Abdomen Haematologic

Imaging Technique: CT Case Type: Clinical Cases

Authors: Mohamed Rafi KatharHussain, Rintu George,

Anand AM

Patient 55 years, female

Clinical History:

A 55-year-old female came with the complaints of abdominal pain radiating to back. On abdominal examination, there is a hard non-tender epigastric mass. Complete blood count reveals elevated lymphocytes - 84.6% (reference range 45-75%). Rest of the clinical examination was unremarkable.

Imaging Findings:

A triple-phase Multidetector Computed Tomography (MDCT) shows multiple enlarged predominantly conglomerate lymph nodes in periportal, peri-pancreatic, infra-pancreatic, pre-aortic, bilateral para-aortic, peri-renal, perimesenteric, retrocrural, aorto-caval, retrocaval and right lilac fossa region. Many of them shows non-enhancing central necrotic area within. The largest lymph node is in infra-pancreatic region measuring 8.8 x 3.1 cm. Peripancreatic lymphnodes causes compression of ampulia and duodenum leading to mild infrahepatic biliary radical dilatation (IHBRD). The lymph node around the peri-pancreatic region is in close proximity with the head and uncinate process of pancreas with loss of fat plane between the lymph nodal mass and pancreas(arrows in figure 3b). No significant pancreatic duct dilatation seen. Patient was planned for diagnostic laparoscopy with laparotomy which shows multiple conglomeratemesenteric nodes and were taken for blopsy.

Disoussion:

Lymphomatous proliferation is defined as clonal malignant proliferation of a mature lymphocyte from a secondary lymphoid structure- a lymph node or an extranodal structure i.e. the spieen and also the structures attached to the mucosa like Peyer's patches [1]. The cause remains unknown but certain lymphomatogenic factors have been identified [2]. Extranodal can involve any organ, while secondary involvement from a disseminated form is most frequent. Isolated pancreatic lymphoma arising from lymphoid elements are extremely rare, and is defined by certain clinical criteria like normal leukocyte count, absence of palpable superficial lymphadenopathy, no enlargement of mediastinal nodes, predominance of pancreatic mass with perspancreatic lymphodes and absent hepatic or spienic involvement [3]. Alimentary canal involvement occurs in 10-30% of cases of Non-Hodgkin's lymphoma. The stomach is the most frequent site of extranodal lymphomas [4]. Pancreatic lymphoma are rare, representing less than 1% of NHL. [5, 6].

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Cecal diastatic perforation due to descending colon adenocarcinoma

Published on 08.03.2022

DOI: 10.35100/eurorad/case.17649

ISSN: 1563-4086

Section: Abdominal imaging

Area of Interest: Abdomen Gastrointestinal tract

Imaging Technique: Abdomen

Imaging Technique: Gastrointestinal tract

Case Type: Clinical Cases

Authors: Mohamed Rafi Kathar Hussain, Rintu George

Patient: 72 years, male

Clinical History:

A 72-year-old male patient came to outpatient department with complains of abdominal pain, vomiting and constipation for the past 4 days. Clinical examination revealed moderate abdominal distension with mild guarding and tendemess in the right lilac fossa region. Laboratory investigation showed elevated white blood cell-count with neutrophila.

imaging Findings:

Plain radiography revealed multiple air-fluid levels in small and large bowel loops extending up to the left colonic flexure, suggestive of large bowel obstruction(Fig. 1). The following day, emergency non-contrast CT scan (NCCT) of the abdomen was done, which showed midline distended decum with luminal diameter measuring 9.5cm with associated dilatation of ascending and transverse colon and collapsed recto-sigmoid bowel loops. (Fig.2a). NCCT was done because patient had deranged renal function. Signs of small gaseous collection were noted within the caecal wall, leading to the diagnosis of pneumatosis coil. There was not any abnormal dead wall thickening or gas in the intestinal vessels (Fig. 2b). Heterogeneous/regular intraluminal soft tissue density mass lesion of size 3.7 x 3.9 cm was noted in the mid descending colon with associated mild peri-colonic fat stranding (Fig.3a, 3b). Gross pneumoperitoneum (Fig.4a, 4b)was noted inperi-hepatic, perispienic and peri-colic region with minimal fluid collection in right iliac fossa. The patient underwent emergency laparotomy which confirmed a mass in the descending colon (Fig.5a, 5b) associated with decal perforation (Fig.5a). Left hemicolectomy, transverse colon to rectum end to side anastomosis, decal closure and loop lieostomy was done. Histopathology report confirmed well-differentiated adenocarcinoma of descending colon (Fig.6).

Discussion:

Gastrointestinal tract perforation is one of the most common surgical emergencies with a reported mortality ranging from 30 to 50% [1]. About 15–30% of colorectal cancer (CRC) patients can present with acute abdominal symptoms due to perforation, bleeding and obstruction [2]. The perforation incidence in case of CRC ranges from 2.6% to 10% [3]. Bowel perforation usually occurs at the maximal site of bowel distension, in certain conditions perforated bowel loop may be so distant from the underlying cause of the bowel obstruction. Perforation occurring at the site of tumour is seen in 70% of cases and colonic perforation occurring proximal to the tumour site is seen in around 30% of cases [4]. Perforation occurring proximal to the colonic mass is called as diastatic perforation, it is due to overdistension and blow out of cecal wall [5]. The typical radiologic triad is massive pneumoperitoneum, marked cecal dilatation and large bowel obstruction. In spite of perforation, cecum is dilated which is astonishing [6].

According to the Laplace law, the tube which has the largest diameter requires the least amount of pressure for KAGNE. R.N distension. So, in case of distal large bowel obstruction, with competent lieocecal valve, the cecum is the most DEAN common site of perforation [7]. Peritoneal contamination is usually localized in case of tumour site perforation. While ULA VINAYAGAR

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Clinical profile of hypoglycemiain type 2 diabetes mellitus patients

Dr. Kailash. C1, Dr. Badrinath. A. K2, Dr. SureshBabu. S3

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Date of Submission: 08-11-2020

Date of Acceptance: 21-11-2020

I Introduction

Currently, we are experiencing an epidemic growth in the number of people with diabetes worldwide.\(^1\)

An estimated 366 million people, corresponding to 8.3% of the world's adult population, have diabetes today, but the prevalence is expected to grow to 552 million by 2030, corresponding to 9.9% of the adult population.\(^1\)

This increase goes hand in hand with "westernization" of lifestyle, with consumption of more energy-dense food and decreasing physical activity.\(^1\)

Driven by this development, diabetes affects more and more young people. These changes have driven a huge increase in T2DM —the most common form of diabetes, particularly in young people, especially in their working age.\(^1\)

The medical burden is rising as patients with diabetes are developing a growing number of metabolic and cardiovascular comorbidities.\(^1\)

The growing economic burden in complex socioeconomic structures becomes obvious.\(^1\)

The continuation of the diabetes epidemic is predicted, and the World Economic Forum foresees the epidemic as a disaster likely to continue to worsen in the foreseesble future with a significant impact on global economic growth at least similar in scale to the recent banking crisis.\(^1\)

The glycosylated hemoglobin goal according to ADA guidelines is below 7.0% but should be individualized based on factors such as age and life expectancy, co-morbid conditions, and hypoglycemia unawareness.

Exercising during the evening hours increases the risk of nocturnal hypoglycemia, which may occur up to 4 to 6 hours after an exercise bout. To decrease the likelihood of this response during the night (or day), the patient with diabetes may need to reduce his or her insulin dose or increase carbohydrate intake before or after exercise. Recognize the signs and symptoms of hypoglycemia. These include heart palpitations, confusion, weakness, and visual disturbances. If hypoglycemia is left untreated, it could lead to unconsciousness or convulsions. To reduce the likelihood of complications, patients with diabetes should always carry a form of fast-acting carbohydrate (e.g., juice, candy, and glucose tablets), exercise with a partner, and wear a diabetes identification tag. Monitor for symptoms of hyperglycemia. These include excessive thirst; frequent urination; blurred vision; itchy, dry skin; and a fruity odor or breathe. Hyperglycemia can lead to diabetic coma.

The pursuit of strict glucose control is frequently hampered by concerns over hypoglycemia. Hypoglycemia requiring their party assistance is common in the course of type 2 diabetes therapy and occurs with a frequency of approximately 35 episodes per 100 patient-years among insulin-treated patients. Hypoglycemia occurring during treatment has been associated with several adverse events, including increased mortality, ^{8,9} higher risk of dementia, ¹⁹ falls, ^{13,12} fall related fractures, ¹⁰ cardiovascular events, ¹⁰ and poor health-related quality of life. ¹⁵ In particular, the relationship between hypoglycemia and subsequent cardiac events warrants attention. There are a number of plausible mechanisms by which acute hypoglycemia may trigger ischemia, arrhythmia, and cardiovascular events. ¹⁶ Hypoglycemia increases the levels of counter regulatory hormones, such as epinephrine and norepinephrine, which may induce increased cardiac rate and/ or contractility, heightening myocardial oxygen consumption, while also precipitating vasoconstriction and platelet aggregation. ¹⁶ Acute hypoglycemia in the presence of hypokalemia prolongs cardiac repolarization, increases the OT interval, favoring a proarrhythmic state. One study of type 1 and type 2 diabetic patients who presented to the hospital with severe hypoglycemia documented frequent hypokalemia, OT prolongation, and severe hypoglycemic events. ¹⁷

Type 2 diabetes mellitus patients between age group 30-65 years admitted as in patients in SMVMCH with other associated factors are assessed for their hypoglycemic episodes and the frequency of hypoglycemia are correlated with other parameters. This study is mainly done in the view of "Hyperglycemia is a serious problem, Hypoglycemia is a fatal condition".

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Anti-Seizure Medication Induced Seizure-A Case Report

Dr Araveinth.G 14. Dr A.K. Badrinath 2 Dr S. Suresh Babu 3

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Abstract:

Science-inducing effects have been observed in the treatment of Epileptic patients with anti-epileptic drugs. The paradoxical increase may occur as a result of different mechanisms. Occurbasepine, a structural derivative of Carbamasepine is used as an anti-convulsant drug and mood stabilizing agent.

Hyponatrenia is seen in patients on occarbazepine, but symptomatic hyponatremia is rare in patients on occarbazepine. Here we present a case of a 65 year old male with Setzure disorder with old CVA and systemic hypertension who was on occarbazepine therapy developed further increase in setzures and worsening mental status secondary to Severe hyponatremia.

Keywords: Seizures, oxcarbasepine kyponatremia

Ery messages: certain drugs like oxcarbasepine which is used in the treatment of epiplesy can itself cause seizures due to hypomatremia.

Date of Submission: 26-12-2020 Date of Acceptance: 07-01-2021

I. Introduction:

Seizure-inducing effects are noted in patients with antiepileptic drugs (AED).

Some of the drugs associated with increasing seizure activity are valporate, carbamazepine and phenytoin. Oxcarbazepine (OXC) is a keto analog of carbamazepine(CBZ) is used as an antiepilepic agent and in bipolar disorder because of its mood stabilizing properties. There are some studies showing paradoxical increase in seizure activity in patients on oxcarbazepine therapy. This could be possibly explained by its mechanism of action as sodium channel blocker. Here we present a known case of seizure disorder who was on oxcarbazepine therapy developing further increase in seizures secondary to severe hyponatremia.

II. Case Report:

A 65 years old male patient who is a manual labourer presented with Complaints of one episode of seizures few hours before admission to hospital. It was a generalised tonic clonic seizure lasting for five minutes involving all 4 limbs with frothing from mouth and post ictal confusion present. Patient had two episodes of Seizures previous day. He also had complaints of persistent hiccoughs, headache giddiness and generalized fatigue for the past 2 days. Patient is a known case of Seizure disorder for the past two years on treatment with tab. Oscarbazepine 600mg Twice daily. He is also an hypertensive on tab. Amiodipine Sing OD and had a history of CVA with left hemiparesis 3 years back and gradually improved with antiplatelets.

On examination patient in altered sensorium, afebrile, pulse-90/min. regular; BP-130/70mmHg and SPO2-98% in room air. Cardiac and respiratory system examination were normal. Central nervous system—Patient in altered sensorium, spontaneous eye opening present, responded to pain, moved all limbs, deep tendon reflexes were normal and plantar extensor on left and flexion on right side. No signs of meningeal arritation.

His complete haemogram, renal function tests, thyroid function test and Urine routine examination were normal. His serum electrolytes revealed hyponatremia. With sodium -105meq/lit potassium -3.0meq/lit, chloride_73meq/lit and bicarbonate_19meq/lit. Serum osmolality was 273 mmol/lit and urine osmolality was 153mmol/lit. Urine spot sodium was37.7meq/lit and spot potassium16.5meq/lit. A Computed tomography of the brain was done to rule out any lesion in the brain and it Showed age related atrophic changes.

Patient was started on intra venous hypertonic saline (3%NaCl) infusion and oral free water restriction for correction of hyponatremia. Patient was continuing the medications which he was taking prior to admission Patient was later started on tah Tolvapton15mg OD. Despite treatment patient had persistant hyponatraemia and developed another episode of seizure on day 2 of admission. On day 3 of admission after stopping tah oxcarbazepine patient serum sodium level gradually improved and patient sensorium improved and was seizure free Patient serum sodium level was normal after stopping hypertonic saline infusion and tah tolvapton Patient was started on tab phenytoin100mg BD and discharged After one month of discharge

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Prevalence of Cirrhotic Cardiomyopathy and Correlation with Child-Pugh Score

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Corresponding Author: Sibi Chakravarthy C

ABSTRACT

Background: The deterioration of cardiac function in patients with liver cirrhosis has been a great debate for past two decades. A newer entity called "Cirrhotic Cardiomyopathy" has been described which includes a variety of features like QT prolongation, systolic and diastolic dynfunction. This is of extreme importance since cardiac function plays a major role in mortality and morbidity of the patient.

Aim: To assess the prevalence of cirrhotic cardiomyopathy and to assess its correlation with Child Pugh score.

Methodology: A hospital based cross sectional study was conducted in department of general medicine and department of gastroenterology. The study period was one and a half years after obtaining approval from the ethical committee. The study population was 93 and the patients admitted in general medicine and gastroenterology were enrolled for the study.

Results: 44.4% patients were in age group 31-45, 69% had abdominal distension as chief complaint, 77.4% patients were alcoholics. 61.3% of patients had features of liver cell failure and 54.8% were in hepatic encephalopathy, 45.2% patients were under Child B and 45.2% under Child C. 77% of of cirrhotic had features cardiomyopathy of which 49.9% were child C. 56% patients had diastolic dysfunction. Systolic dysfunction was found in 30.1% patient which had a statistical significance of 0.02. While comparing with Child Pugh score diastolic dysfunction was significant with a p value of 0.035 considering the variables taken in the study Albumin and DR values were statistically significant with a p value of 0.038 and 0.043 respectively.

Conclusion: Our study showed a staggering rise in the presence of cirrhotic cardiomyopathy in patients with end stage liver disease when compared to previous studies. Presence of systolic dysfunction was statistically significant, whereas on correlating with Child Pugh score only diastolic dysfunction was significant.

Keywords: cirrhotic cardiomyopathy, liver cirrhosis, Child Pugh score

INTRODUCTION

Chronic liver disease is a pathological entity which is associated with a spectrum of clinical manifestations. Cirrhosis is the end result of all chronic liver disease. Interactions between the functions of the heart and the liver have been described, with liver diseases affecting the heart, heart diseases affecting the liver, and conditions that simultaneously affect both. Results of experimental and clinical studies shown impaired myocardial contractility as well as electrophysiological abnormalities in patients with cirrhosis'. Alcohol being one of the most common causes of liver cirrhosis can itself cause cardiomyopathy, which is termed as "Alcoholic cardiomyopathy". abnormalities were initially thought to be a manifestation of alcoholic cardiomyopathy. But in the mid 1980's, studies in nonalcoholic patients and in experimental animal models showed a similar pattern of

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A Study of Effect of Anemia over HbA1C Level in Non-Diabetic Patients in a Tertiary Care Hospital in Puducherry

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ABSTRACT

HbAlc assay is as an accurate and precise measure of chronic glycemic levels as it correlates well with the risk of diabetes complications for the same reason it is recommended to rely on HbAlc for diagnosing diabetes.

[13] Falsely elevated HbAlc concentrations are encountered when there is increased circulating erythrocyte life span (decreased red cell clearance) or impaired reticulocyte production.

[14] Anemia is most common factor in Indian population affecting the level of HbAlc. Therefore it's necessary to know whether anemia due to any etiology will affect the level of HbAlc level in non-diabetic patients.

Keywords: Anomia, HbA1C

INTRODUCTION

Hemoglobin A1C (HbA1c) is the predominant hemoglobin found in HbA1 fractions and it constitutes 5% of the total hemoglobin in normal adults and up to 15% in patients with diabetes mellitus ¹⁰. Hgb A to HbA1c conversion takes place during the entire life span of the red blood cell and the rate of this reaction is faster in diabetics because of the higher prevailing glucose concentration, resulting in a higher concentration of HbA1c. Red blood cells (RBC) are freely permeable to the plasma glucose molecules, and hemoglobin is practically exposed to the same glucose concentrations as plasma. Therefore, HbA1c

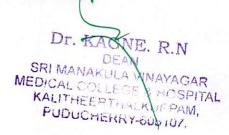
level is directly proportional to average blood glucose concentration over the previous 4weeks to 3 months or the average lifespan of the erythrocyte.

There are a number of methods available to estimate glycated hemoglobin like immunoturbidimetry, ion exchange high-performance liquid chromatography (HPLC), boronate affinity, and enzymatic method. HbAlc assay is as an accurate and precise measure of chronic glycemic levels as it correlates well with the risk of diabetes complications for the same reason it is recommended to rely on HbAlc for diagnosing diabetes [21]. Despite its benefit, HbAlc is affected by a variety of genetic, physiological, hematological and illness related factors.

Falsely elevated HbAlc concentrations are encountered when there is increased circulating erythrocyte life span (decreased red cell clearance) or impaired reticulocyte production ^[3]. Out of these factors affecting the level of HbAlC, most common entity in Indian population is anemia out of which most common type iron deficiency anemia has showed impact in HbAlC value in non diabetic individuals

Therefore it's necessary to know whether anemia due to any etiology will affect the level of HbA1C level in non-diabetic patients for whom accurate analysis of glycemic status is necessary. So this study was done to estimate the HbA1C level

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Stuck Mitral Valve Thrombosis Presenting as Embolic Stroke Following Thrombolysis- A Case Report

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ABSTRACT

Prosthetic valve thrombosis is one of the major causes of primary valve failure, which can be life-threatening. Although surgery is the first-line treatment modality in symptomatic Prosthetic valve thrombosis, thrombolytic therapy has recently evolved as an effective substitute to surgery. Cerebral embolism can occur in 5-6% of left sided valve thrombus and this is a case of Prosthetic mitral valve thrombosis presenting as acute ischaemic stroke after Thrombolysis due to Thromboembolism.

Keywords: Prosthetic valve Thrombosis, Thrombo-embolism, Acute Ischaemic Stroke

INTRODUCTION

Prosthetic valve thrombosis (PVT) is a rare but serious complication of valve replacement, most often encountered with Mechanical prosthesis. [2] PVT is an obstruction of a prosthesis by noninfective thrombotic material. The most common cause of PVT is inadequate anticoagulant therapy. Unfortunately, vitamin antagonists are still the only approved oral anticoagulants in patients with heart valve prostheses. Even with the use of Vitamin K Antagonists, the risk of thromboembolism is 1%-2% per year, but the risk is considerably higher without or inadequate treatment with warfarin. [3] Significant morbidity and mortality associated with this condition warrants rapid diagnostic tests. The different therapeutic modalities

available for Prosthetic Valve Thrombosis (Heparin treatment, fibrinolysis, surgery) will be largely influenced by the presence of valvular obstruction, by valve location (Left- or right-sided), and by clinical status.^[2]

CASE REPORT

This is a case of 23 years old female who is a K/C/O Mitral valve prolapse for which Mitral valve replacement (St. Jude's valve) done, 4 years ago, presented with chief complaints of difficulty in breathing for 3 days, Class III-IV NYHA, with orthopnea and history of cough with Expectoration. No history of fever, chest pain, limb swelling present. She was on irregular Oral anticoagulation medications. other comorbidities. General No examination was normal Vitals - Pulse Rate- 110 bpm, BP- 80/50mmHg, RR-32/min, SPO2- 92% at Room Air. Cardiovascular system examination - \$1, \$2 heard and Valve click not heard in mitral area. Respiratory system examination revealed Fine end Inspiratory Crepitations in Bilateral Infra-Axillary and Infra-Scapular areas. Central nervous System revealed No Focal Neurological deficit. Abdomen examination - Soft, non-tender, No organomegaly.

Investigations showed PT INR value of 1.5. Chest X-ray revealed Cardiomegaly with ill defined homogenous opacities present in Bilateral lung fields(fig1-thin

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The Study of Serum Gamma Glutamyl Transferase Level in Patients with Metabolic Syndrome

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Corresponding Author: Nagabbushan D

ABSTRACT

Gamma Glutamyl Transferase (GGT) belongs to Transferace enzymes. It is used as a diagnostic marker for liver disease. Gamma Glutamyl Transferase was found to elevated in Metabolic Syndrome patients along with mildly elevated liver enzymes to the upper limit. The aim is to study the level of Serum Gamma Glutamvi Transferace in Metabolic Syndrome patients and to analyse for any association between serum GGT levels and parameters of Metabolic Syndrome. The study population is of 114 who are diagnosed as Metabolic Syndrome. Waist circumference, Body Mass Index (BMI), blood pressure, lipid profile, liver function test, fasting blood glucose of the subjects were recorded Mean serum Gamma Ghitamyl Transferase was 92.7 ± 52.5. An elevated GGT was found to be associated with Metabolic Syndrome subjects. Also there was a positive correlation between GGT and waist Circumference, triglycerides, erythrocyte sedimentation rate, liver function

Key words: Gamma Glutamyl Transferase, metabolic syndrome, waist circumference, triglycerides.

INTRODUCTION

The Metabolic Syndrome is a group of metabolic abnormalities that confers increased risk of cardiovascular diseases and diabetes mellitus. The major features of the metabolic syndrome include central obesity, hypertriglyceridemia, low high-density lipoprotein, cholesterol, hyperglycemia, and hypertension. The raise in the prevalence of obesity in India is threatening to increase the burden of

Atherosclerotic cardiovascular disease (ASCVD).

The prevalence of metabolic syndrome worldwide is 20-25%. 23 There has been a consistent effort to evaluate biochemical markers to predict an early onset of Metabolic Syndrome and subsequently intervene appropriately by means of lifestyle changes and drug therapy and thereby reduce cardiovascular morbidity and mortality. Studies are lacking in the adult Indian population.

Markers like adiponectin have been studied as a measure of increased adipose but have not proven to be cost effective and easily available. Clearly a cost effective and easily available marker is required to predict an early onset of this syndrome. Gamma Glutamyl Transferase (GGT) is one such marker which is cost effective, easily available. High levels of GGT have been associated in populations with increased risk of Atherosclerotic cardiovascular diseases (ASCVD) 2.6. Several prospective studies reported that baseline serum GGT concentration was an independent risk factor for the development of coronary artery disease (CAD), diabetes mellitus, stroke and hypertension7. The purpose of this study is to evaluate the utility of GGT as an early marker in Metabolic Syndrome.

Objective

 To study the level of Serum Gamma Glutamyl Transferase in Metabolic Syndrome patients.

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Hodgkin's Lymphoma Presenting as Paraplegia: A Case Report

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ABSTRACT

Hodgkin's lymphoma is a malignancy of mature B lymphocytes which has Bimodal distribution of age at diagnosis and presents as palpable, non-tender lymphadenopathy. Neurological manifestations are rare complication of Hodgkin's disease (0.2%) and this is a case of Hodgkin's lymphoma which presented primarily with paraplegia as a neurological deficit caused by spinal cord compression.

Keywords: Hodgkin's lymphoma, paraplegia, neurological deficit.

INTRODUCTION

Hodgkin's lymphoma (HL) is a malignancy of mature B lymphocytes and represents 10% of all lymphomas diagnosed each year. The majority of HL diagnosis is classical HL (cHL). A bimodal distribution of age at diagnosis has been observed, with one peak incidence occurring in patients in their twenties and the other in those in their eighties. Most patients with cHL presents with palpable lymphadenopathy that is nontender in most of the patients, these lymph nodes are in neck, supraclavicular area and axilla. More than half of the patients will have mediastinal adenopathy at diagnosis, and this is sometimes the initial Subdiaphragmatic manifestation. presentation of cHL is unusual and more common in older males.[1]

HL is predominantly a disease of the lymph nodes although extranodal sites of disease may be present in 10% of cases. Direct neurologic dysfunction results from intracranial metastases, metastases to the epidural space of the spinal cord with resultant spinal cord or nerve root compression, metastatic leptomeningeal disease, and intramedullary spinal cord metastases. [7]

CASE REPORT

This is a case of a 46 year old male who was apparently healthy 6 month back and then he developed low back ache which was dragging type, intermittent, aggravated on prolonged standing and relieved by taking rest. Then he developed difficulty in walking, initially he had difficulty in using left leg for walking climbing stairs getting up from squatting position which gradually involved right leg also in a duration of one month. Patient had no involvement of upper limb. The symptoms worsened in next 10 days after which he had decreased sensation of both the lower limb and became completely bedridden. History of walking over cotton wool like sensation present. History of band like sensation around the hip was present. On examinations positive finding were multiple cervical non-tender and non matted lymphadenopathy, bilateral decreased of lower limb with power grading of 0/5, absent abdominal and cremasteric reflex and bilateral extensor Babinski response. The crude touch, pain and temperature where decreased below the level of umbilicus, and absent sensation in perianal region and tenderness over spine in thoracolumbar region.

International Journal of Research and Review (ijirjournal.com) Vol.7, Issue: 11; November 2020



A Deviant Manifestation of Sarcoidosis: Bilateral Inguinal Lymphadenopathy

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ABSTRACT

Background: Sarcoidosis is a systemic granulomatous disorder, characterized by involvement of multisystem, frequently involves pulmonary system. Sarcoidosis can have varied presentations. The clinical presentation of sarcoidosis ranges from asymptomatic to organ failure. It is unclear how often sarcoidosis is asymptomatic. Lymph node involvement is found rarely in isolation.

Case Report: A 63-year-old asymptomatic male presented with bilateral pelvic and inguinal lymphadenopathy. An ultrasonogram scan of the abdomen, and pelvis revealed bilateral deep pelvic and inguinal bulky lymphadenopathy. Excision biopsy revealed sarcoidosis. He responded to six months of oral steroid treatment.

Conclusion: This case illustrates the different presentation of sarcoidosis and the difficulty in diagnosing sarcoidosis in its initial stages. A high suspicion and excision biopsy is the key in diagnosing this condition.

Keywords: Sarcoidosis, Lymph nodes, Biopsy

INTRODUCTION

Sarcoidosis is a global disease of unknown etiology. It is an inflammatory disease characterized by the presence of non caseating granuloma with varied presentations thus leading to confusion whether asymptomatic individuals with suspected diagnosis of sarcoidosis should be investigated further. This disease is often multisystem and requires the presence of involvement in two or more organs for the specific diagnosis¹. The clinical presentation

of sarcoidosis varies from asymptomatic to complicated sarcoidosis. Respiratory involvement (> 90 %) is most common¹, but it is non specific in nature with non specific constitutional symptoms. Typical pulmonary manifestations are easily identified.

The typical manifestations of this include bilateral lymphadenopathy and pulmonary reticular opacities2. The clinical presentation of sarcoidosis depends as age, sex, and race, the duration of the disease and the sites of involvement. Frequency of common organ involvement is lung (90%), skin (24%), eye (12%), extra thoracic lymphnode (15%), liver (12%), Spleen (7%), neurological (5%), cardiac (2%) with Constitutional symptoms like fatigue, fever, night sweats weight loss. Diagnosis asymptomatic presentations in sarcoidosis remains a challenge as it can influence prognosis.

CASE REPORT

A 63 year old male presented with swelling over the bilateral inguinal region since 3 months, multiple in number and was non tender, non discharging. History of yellowish discolouration of urine for 7 days, 2 months back. For which patient took native treatment. History of generalized fatiguability and weight loss present. Besides he was a smoker and quitted smoking 3 years back.

The vital signs were stabler IKAGNE. R.N physical examination three non tender DEAN SRI MANAKULA WNAYAGAR

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Original Research Article

Study on assessment of Obstructive sleep apnea (OSA) risk in Obese pregnant women

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ARTICLE INFO

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Keywords: CISA Programsy Oberaty STOP BANG

ABSTRACT

Introduction: Obstructive shop apnea is a major public health concern which is associated with cardiovascular and carebrovascular correctionation. Eventhough association of OSA with adverse felomaternal outcomes is documented, sensening for OSA in programmy is a challenging task. So the purpose of our study is to assess the risk of OSA in ohese programt before by using established STOP BANG Questionney for OSA

Materials and Methods This cross sectional study on assessment of obstructive sleep apies risk arrang the obose progrant women was done in tertiary care centre in the rural population of Pustacherry. Results: 21 obesic programs weren were included in our study. The mean age of our study population war 29.5 years. Most of the study subjects (85.7%) had history of secring both superted by them and their had partners. History of farathesis was reported by 14 patients (66.6%) Chocking or history of gasping was reported by only 4 patients (19%). He rails of our study showed that 42.9% of the obose program women had high risk, 42.9% had intermediate risk and 14.3% for OSA as per the STOP BANG scering.

Conclusion: Thus our study subjects were having higher risk of OSA which needed further evaluation with polynomography. Thus the STOPBANG questionnaire can be used to senses for obstructive sleep aprea (CSA) in ohose women during programsy.

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1. Introduction

Obstructive sleep aprea (OSA) may affect nearly 20 percent of obese pregnant women.1 Hypertensive disorders of pregnancy, Gestational diabetes mellitus and cardiomyopathy are the major comorbidities associated with OSA in pregnancy. It has been well documented that OSA in pregnancy have 2-fold increased risk of developing preeclampsia and 1.5-3.5-fold increased risk of the developing of gestational diabetes mellitus.2

Obstructive sleep apnea is a major public health concern which increases the cardiovascular and cerebrovascular comorbidities. OSA screening is mandatory for specific

* Corresponding sucher. E-mail address depresoned gmail com (P. Radhakrishnan). population which includes obese people, patients with Resistant/poorly controlled diabetes mellitus/hypertension and Chronic kidney diseases. Even though lot of pathophysiological factors increases the risk of OSA in pregnancy, available literature in these group of population is sparce.

Adverse fetomaternal outcomes were well documented in patients with OSA in pregnancy. Hence it is mandatory to screen these patients which is a challenging task. Polysomnography is the gold standard investigation for the diagnosis of OSA but limited by its cost, waiting period in health care setting with significant patient load and time consumption. Unattended level 3 home based sleep studies is emerging as reliable cost-effective method for diagnosing

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REVIEW ARTICLE

Management of Infertility—Recommendations in the COVID-19 Era

Sendhil C Arumugam¹, Jayasree Manivasakan², Syed Habeebullah³

ABSTRACT

Worldwide, the incidence of infertility is 15%. In India, the incidence of infertility varies between states ranging between 3.9% and 16.8%. India has 22–23 million infertile couples, and the total fertility rate has declined from 3.9 in 1990s to 2.3 in 2019. At present, the estimated number of it vitro fertilitation cycles countrywide are around 100,000, and it was expected to reach 250,000 by the end of 2000. But with the COVID-19 pandemic, all these treatments have been brought to a sudden half. Decision to stop all treatment is because SARS CoV2 is a global health pandemic and infertility treatments are usually electively done. Also we need more studies to show that COVID-19 has no effect on newer programcies.

Keywords: COVID, Cross-training, Freeze-all, Infertility.

SBV Journal of Basic, Clinical and Applied Health Science (2020): 10.5005/jp-journals-10082-02253

INTRODUCTION

The World Health Organization (WHO) states that one in every four couples in developing nations is affected by infertility. India has 22–23 million infertile couples, and the total fertility rate has declined from 3.9 in 1990s to 2.3 in 2019. At present, the estimated number of in vito fertilization cycles country-wide is around 100,000, and it was expected to reach 250,000 by the end of 2020. As the world faces a pandemic with enormous casualties and an uncertain tuture for most people, the physicians in reproductive medicine and their patients are faced with newer challenges.

Patients should be informed that considering the rapid community transmission and the lack of symptoms among infected people, frequent visits to the hospital may endanger them and their families. Healthcare workers in fertility centers should understand that high virulence and the sustained surface viability of the virus may cause severe difficulty in keeping the lab surfaces sterile.

Keeping the healthcare workers and their patients a priority, most fertility societies have advised suspension of elective dinical activities. This is highly applicable to infertility workup and procedures. As we have very little information on the effect of COVID-19 on organogenesis (teratogenic ability) and also on perinatal outcome, it is better to withhold fertility procedures. But if women are in the middle of an infervention or a treatment cycle or for fertility preservation before oncology treatment, treatment cycles can be completed with the full counseling and understanding of the implications by the patients.

RECOMMENDATIONS

The following guideline will help decrease the chance of acquiring the infection and help conserve essential resource of healthcare workers. ²⁴

Social Distancing

- All persons entering clinical spaces, both patients and healthcare workers, should be carefully assessed for body temperature and health status.
- Minimize the number of healthcare providers in the clinic.

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- Minimize number of patients in the reception and patient waiting area when they come in for urgent procedures.
- Follow social distancing by shifting the OPD practice to the telehealth model either using telephone or computer-based face-to-face office-based consultations.

Trave

- Advise patients to avoid travel to fertility clinics for the sole purpose on non-emergency procedures like egg donation, gestational surrogacy, etc.
- Patients who have had bables delivered through gestational carriers from travel-restricted areas should make alternative care plans for the infants until the travel restrictions are withdrawn.
- For geographically distant patients teleconsultations are recommended to ascertain the need for an appointment.

CLINICAL MANAGEMENT

 Plan suspension of all new treatment cycles that include ovulation induction, intrauterine inseminations, in vitro fertilization, and gamete cryopreservation.

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Drug-Induced Lupus Erythematosus Associated with Proton Pump Inhibitor

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[Health Allied Sci #12020:10:132-134

Abstract

Keywords

- drug-induced lupus
- pantoprazole
- proton pump inhibitors

Drug-induced lupus erythematosus is an autoimmune phenomenon where the drug exposure leads to the development of systemic lupus erythematous like clinical features. Drug-induced lupus erythematosus can be divided into systemic lupus erythematous, subacute cutaneous lupus erythematous, and chronic cutaneous lupus erythematous. Here, we report a case of a 29-year-old female presented with systemic lupus erythematous due to chronic use of proton pump inhibitors, which is considered to be very rare.

Introduction

Drug-induced lupus erythematosus (DLE) is a rare adverse reaction to a large variety of drugs with features resembling those of idiopathic systemic lupus erythematosus (SLE). It comprises up to 10% of new lupus cases annually. The first case described in 1995 was associated with treatment with sulfadiazine, since then more than 90 drugs have been related to DLE and the number is continuously increasing. Recently proton pump inhibitors (PPIs) have been found to be associated with DLE. The presentation is vague and needs a high index of suspicion resulting in a costly workup. Given that the prognosis is usually good if therapy with offending drug is stopped, it is important to identify this clinical entity promptly.

Case Report

A 29-year-old female patient was admitted to our department with 2 months history of pain in small joints of both upper limb, multiple skin lesions, and painless ulcers on oral cavity. On examination, prominent annular nonscarring erythema was present on the thigh, knees (- Fig. 1), and extensor surface of elbow (- Fig. 2). No other abnormalities were found on physical examination except for tenderness in the metacarpophalangeal joints of bilateral upper limbs and a painless ulcer over the palate (- Fig. 3). Noutine investigations were conducted, including a complete blood count, renal function test, urine examination. Since she is a young female in the early reproductive age group, she was screened for connective tissue disorders. The laboratory investigations revealed normal hemogram, liver and kidney function test, and serum electrolytes. Rheumatoid factor was negative. Antinudear antibody (ANA), antihistone antibody, and antidsDNA were positive. Above findings along with lack of systemic involvement raised the suspicion of drug-induced SLE; on further probing of history, we found that she was using pantoprazole tablet for the past 6 months for gastroesophageal reflux disease before her skin lesions appeared. She had no other concomitant diseases and did not take any other drug. She was diagnosed to have drug-induced SLE. The drug was discontinued and tab. hydroxychloroquine 200 mg twice daily and prednisone 0.5 mg/kg/day was started. The therapy was continued for 4 weeks and then the corticosteroid dose was tapered. Complete dearance of skin lesions was noted within 4 weeks of the treatment even the pain over the joints and oral ulcers had healed

Discussion

DLE is a lupus-like syndrome temporally related to continuous drug exposure that resolves upon drug discontinuation. There are currently no standard diagnostic criteria for DLE. Findings include skin manifestations, arthritis, serositis, antinuclear, and antihistone antibodies positivity. Similarly to

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PUDUCHERRY-505107.

REVIEW ARTICLE

Cardiovascular Risk in Hashimoto's Thyroiditis: Role of Thyroid Autoimmunity

Rajarajeswari Ranganadane³, Sumathi Saravanakumar S³, Srinivasan Abu Raghavan³, Asmathulla Shafiulla⁴, Girija Subramanian⁵, Maithili Karpaga Selvi Nachimuthu⁶

ABSTRACT

Hashimoto's thyroiditis (HT) is the most common autoimmune thyroid disease synonymous with hypothyroidism. The link between hypothyroidism and the risk of cardiovascular diseases is of contemporary interest. Studies have indicated the prevalence of metabolic syndrome and endothelial dysfunction in HT patients. HT per se might possess a role in atheroscierosis. Association of HT with dyslipidemia and chronic inflammation leading to endothelial dysfunction has been documented. However, the role of thyroid autoimmunity in promoting cardiovascular diseases remains unclear. Further studies unraveling the causal relationship between HT and cardiovascular disease would provide greater insight into the management of atherogenic complications observed in HT patients.

Keywords: Chronic inflammation, Dyslipidemia, Endothelial dysfunction, Hashimoto's thyroiditis.

SBV Journal of Basic, Clinical and Applied Health Science (2021): 10.5605/jp-journals-10082-03106

INTRODUCTION

Hashimoto's thyrolditis (HT) is an autoimmune disease characterized. by the destruction of thyroid calls by both cell- and antibodymediated immune responses¹ and is regarded as the commonest cause of hypothyroidism. HT has a prevalence rate of 1-4%. HT is more common in women and increases with age. 2.3 Several studies have shown the association of hypothyroidism with dyslipidemia and chronic inflammation, which in turn enhances the risk for cardiovascular diseases. A marked increase in lowdensity lipoprotein (LDL) is seen in hypothyrolidism, attributed to decreased LDL receptors in the liver culminating in reduced LDL dearance. 5.6 Hyperlipidemia and chronic inflammation are implicated in atherosclerotic lesion formation. The levels of major inflammatory markers, such as Interleukin (IL) 6, tumor necrosis factor-alpha (TNFd), and high sensitive C-reactive protein (hs-CRP), were found to be elevated in HT patients.7 Though cardiovascular risk seen in overt hypothyroidism is a well-established fact, the influence of thyroid autoimmunity in increasing the cardiovascular events independent of thyroid dysfunction still remains a conundrum. Few studies suggest a putative role of thyroid autoimmunity in atheres derests development independent of thyroid dysfunction. Chronic inflammation and andothelial dysfunction could be the link. Cytokines are believed to modify epithelium thereby allowing infiltration of the thyroid by Immune cells: a mechanism underlying HT. Thus, the purpose of this review is to primarily provide the discerning researchers an overall picture of cardiovascular risk seen in HT patients, which might be a great source of help in the management.

Dyslipidemia and Hashimoto's Thyroiditis: the Nexus

Dyslipidemia as observed in thyroid abnormalities is a potent risk factor of cardiovascular events among patients with abnormal thyroid function. Studies have shown a positive association of extracellular thyroid stimulating hormone (TSH) with lipid levels in hypothyroid subjects. In a prominent study referred to as the HUNT study, the association of hypothyroidism with high blood lipids was

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Source of support: Nill Conflict of Interest: None

observed as a linear function across the entire reference range of TSH. Tagami et al. determined an association between serum TSH and lipid levels. TA pronounced atheroscierotic lesion has been demonstrated in children and adolescents with hypothyroidism, with an accompanying elevation in total cholesterol (TC) and LDL levels and decreased high-density lipoprotein (HDL) level. The control of t

Endothelial Dysfunction—An Important Point for Consideration

Whickham's study showed no association between elevated TSH and dyslipidemia. A study by Tamer et al. also showed no discernible correlation of TSH levels with serum lipids. However, an interesting point had emerged, viz., anti-thyroperoxidase antibodies (TPOAb) have correlated positively and pronouncedly with serum triglyceride (TG). Increased carotid intima-media thickness in HT women, independent of thyroid function has also been reported. Subclinical hypothyroid patients are more prone to

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Original Research Article

Comparison of PGE2 gel alone versus sequential use of Foley's catheter and PGE2 gel in the ripening of unfavorable cervix: a retrospective study

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ABSTRACT

Background: Induction of labor is common procedure practiced in obstetrics. Various methods used for cervical ripening are lacking the proven superiority of one over other. Our study aimed at comparing intracervical PGE2 sel used alone with sequential use of Foley's eatheter and PGE2 gel in order to appreciate reduction in LSCS rate without affecting reconstal outcome.

Methods: The retrospective study was conducted among cases delivered with labor induction between June 2017 to January 2019. Among 104 pregnant women, group1 had received PGE2 gel alone and group 2 had received Foley's followed by PGE2 gel for induction. The primary outcome included Cesarean section rate and secondary outcomes included improvement in Bishop scores, induction to delivery interval, indication for LSCS, APGAR scores, NICU admission. Data was analyzed and compared.

Results: Both groups were comparable with respect to maternal age, gestational age and indication for induction. There was no significant difference in the mean pre-induction Bishop score between groups. Mean IDI was higher in group 2. There was no difference in mode of delivery, neonatal and maternal morbidity between groups. Higher number of women went into spontaneous labor among group 2 and higher number of women needed oxytocin among group 1 for augmentation.

Conclusions: Intra cervical PGE2 can be safely used among women with unfavorable cervix to achieve faster delivery without increasing LSCS rate. Whereas sequential use of Foley's catheter and PGE2 gel can be safer alternative for induction of delivery with low risk of oxytocin augmentation when quicker delivery is not needed.

Keywords: PGE2 gel, LSCS, Foley's catheter, Induction of labor

INTRODUCTION

Induction of labor is indicated when continuation of pregnancy is not beneficial to fetus and may harm the fetus or mother. Status of the cervix determines the success of induction. Several methods are used to ripen the cervix prior to initiation of contractions. Soft, anterior and effaced cervix dilates better compared to firm cervix. Mechanical methods such as Foleys catheter and double balloon stretch the cervix by the pressure on internal os and cervical canal, whereas prostaglandins mimic

physiological cervical ripening and prepare the myometrium for uterine contraction. Unlike prostaglandins, mechanical methods less likely to cause hyper stimulation but increase induction to delivery interval. Although many methods are used to ripen the cervix, superiority of any one method is not proven.

Caesarean section cause substantial risk in indepregnancy as well as future pregnancy. Increased risk of caesarean section is one of the major concerns when compared with the spontaneous labor. Of primigravida

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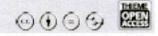
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An Interesting Case of Bilateral Upper Limb Wasting: Hirayama Disease

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Abstract

Keywords

- Hirayama disease
- dynamic MRI
- motor neuron disease

Hirayama disease is a rare neurologic disease and is characterized by insidious unilateral or bilateral muscular atrophy and weakness of the forearms and hands without sensory or pyramidal signs. Our patient presented with bilateral upper limb wasting, which is a rarer variant of motor neuron disease. The diagnosis of Hirayama disease is based on dynamic magnetic resonance imaging (MRI). This case displays how dynamic cervical spine MRI can pick up dynamic cord compression and contributes to zero in the diagnosis of Hirayama disease.

Introduction

Hirayama disease is a rare neurological disease and is characterized by insidious unilateral or bilateral muscular atrophy and weakness of the forearms and hands without sensory or pyramidal signs. The disease primarily affects men in the second or third decades of life. The disease progresses initially, but spontaneous arrest is known to follow several years after the onset.

Case Report

History and Examination

A 20-year-old male presented with complaints of insidious onset symmetric weakness of hands due to lifting heavy objects for 7 months. It progressed to reduced dexterity, with difficulty in mixing food, buttoning of clothes, and combing hair. Furthermore, he noted wasting of muscles and clawing of fingers for last the 4 months (+Fig. 1). There was no history suggestive of involvement of higher mental function, cranial nerves, lower limbs, bowel and bladder, or sensory system. There were also no other known comorbidities.

On examination, the patient had weakness involving both hands, with a handgrip of 60% and impaired abduction and adduction of the digits and opposition of the thumb, with wasting and fasciculation. All other reflexes were normal. Powers of arm and forearm muscles were normal. Sensations were intact. There was no evidence of involvement of the pyramidal, spinothalamic, posterior column lesions, polyminimyoclonus, or autonomic disturbances. The patient was provisionally diagnosed with bilateral upper limb distal wasting under evaluation, and work-up for cervical spine pathology, predominant motor neuropathy, and distal myopathy was considered along with possibility of motor neuron disease (MND) variant.

Investigation

- Blood investigations such as complete blood count, sedimentation rate, and renal, liver, and thyroid function tests were within normal limits, including creatine phosphokinase levels.
- Magnetic resonance imaging (MRI) cervical spine: loss of cervical lordosis. In the neutral position, there is asymmetrical focal cervical cord flattening noted from C5–C7. On flexion MRI, there is anterior displacement of the cervical cord, with cord and spinal canal compression noted from C5 to C7 level (~Fig. 2). Anterior shift of the posterior dura with T2-weighted image (T2WI) and short tau inversion recovery (STIR) (~Fig. 2) hyperintense collection is noted in the epidural space for an approximate length of 12 cm with a maximum thickness of 8 mm with few curvilinear large T2WI flow voids noted within, representing epidural venous engorgement (~Fig. 4).

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PUDUCHERRY-605(107.

A Rare Case of Myocardial Infarction with Nonobstructive Coronary Arteries Due to Hereditary Thrombophilia

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I Health Albed Sci 85-2021:11:101-103

Abstract

Keywords

- MINOCA
- thrombophilia
- protein C and protein 5 deficiency
- anticoagulants
- recurrence of events

The incidence of acute myocardial infarction with nonobstructive coronary arteries in young age less than 20 years in India due to hereditary thrombophilia is uncommon. Combined protein S and protein C deficiency has an increased tendency for coronary artery thrombosis in very young individuals. Acute myocardial infarction in young individuals has different risk factors profile, clinical presentation, and prognosis when compared with elderly population and hence incites the need for different approach In the management. Here we report a case of 17-year-old boy who presented with acute inferior wall myocardial infarction with nonobstructive coronary arteries due to hereditary protein C and protein 5 deficiency.

Introduction

Coronary artery diseases are considered to be one of the leading causes of mortality and disability in adults worldwide. Acute myocardial infarction in very young patients less than 35 years of age is estimated to be less than 2%. In India there is a rise in the number of young patients with myocardial infarction, where majority of people lack the conventional

Young adults with no evidence of atherosclerosis and no major risk factors should be evaluated for deficiency of major anticoagulant proteins especially protein C and protein S. The patients with myocardial infarction should be started on lifelong systemic anticoagulants to prevent the recurrence of events.

Case Report

A previously healthy 17-year-old boy presented to the emergency department with complaints of recurrent vomiting

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and epigastric pain associated with palpitation and giddiness for 1 hour. He was conscious, oriented with normal Glasgow Coma Scale. His blood pressure was 100/60 mm Hg, heart rate of 88 per minute, saturation was 100% at room air. His cardiovascular clinical examination was found to be normal.

A standard 12 lead electrocardiogram (ECG) showed ST segment elevation of more than 2 mm in lead II, III, aVF suggestive of inferior wall myocardial infarction (+Fig. 1) with no extension in right ventricular and posterior wall which was confirmed by taking right-sided and posterior ECG. Basic investigations were found to be normal. The two-dimensional (2D) echocardiogram showed an adequate LV function with mild hypokinesia of inferior wall. He was immediately thrombolyzed with injection Tenecteplase (recombinant tissue plasminogen activator), after thrombolysis he symptomatically improved with resolution of ST segment elevation indicating successful thrombolysis. CK-MB (creatine kinase myocardial band) was elevated, and troponin I was found to be positive.

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CASE REPORT

Open Access

A case report of Amyand hernia—radiological diagnosis and literature review



Mohamed rafi Kathar hussain 100 and Kulasekeran N

Abstract

Background: The hemia is defined as the protrusion of any organ or a part of it through the wall or fascia or any connective tissue which normally encloses that organ. Among the hemias, an inguinal hemia is the most common type. In the inguinal hemia, Amyand hemia is one of the rare types, in which the appendix will hemiate through the inguinal canal. The incidence of Amyand hemia is less than 1% (Namdev et al., Int Surg 1 7:2072, 2020).

Case presentation: We are reporting a case of Amyand hernia, which was diagnosed incidentally in the patient who had been referred to computerized tomography (CT) for a malignant melanoma metastasis screening. Our case is unique in that pre-operative diagnosis of the Amyand hernia is rarely reported in the literature. We can diagnose the type 1 Amyand hernia with utmost confidence.

Condusion: Reoperative diagnosis of type 1 Amyand hemia can be made with utmost certainty by C.T.

Keywords: Amyand, Computerized tomography, Appendix, Inguinal, Ultrasonogram, Surgery, Imaging

Background

The hernia is defined as the protrusion of any organ or a part of it through the wall or faccis or any connective tions which normally encloses that organ. Hernias can or our due to various factors. The most common stiology is due to the weakness of the musicular layer or any persistent congenital or acquired defect in the wall. It can be se ducible, in which the sac contents go back from the sac into the cavity. Or it can be irreducible or incartenated hemia when the sac content does not go back. The most common cause of irreducibility is due to the development of a decision. An incarcerate dhernial loop can go for strangulation at any time, in which blood supply to the loop is lost leading to the development of gargame.

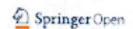
Among the hernis, an inguinal hernis is the most common type. In the inguinal hernis, Amyand hernis is one of the new types with an incidence of less than 1% Amyand he min is defined as the paramor of an appendix within the he min and, with or without appendictis.

Surgical management changes, when the surgeon finds the presence of an inflamed appendix within the hernial sac. Therefore, both surgeons and radiologists are concerned about the contents of the hernia sac. Preoperative diagnosis of Amyand hernia can be made with CT, through which imaging will play an important role in surgical management.

Case presentation

A 75-year-old male patient, who was a known case of malignant melanoma of the right foot, had come with the complaints of recent croset of right grain swelling. He had no other presenting complaints. His viral parameters were stable. Examinations of the respiratory, cardiovascular system, and central nervous system are within normal limits. The abdomen was soft with no organism egaly. Local examination of the right femoral region showed right femoral lymphadenopathy. Clinical diagnosis of right femoral lymph nodal metastatis was

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CASE REPORT

Open Access

A case report of vanishing testicle: radiological diagnosis and short review



Mohamed Rafi Kathar Hussain O

Abstract

Background: Vanishing testicular syndrome is also known as testicular regression syndrome (TRS) is due to atrophy and disappearance of testis in the fetal life after the formation of the normal testis. It is a spectrum of disorders, clinical features are depending upon the stage of fetal or early neonatal life at which function of testicles ceases.

Case presentation: Young 40 year-old male patient came for a routine master health checkup. On clinical examination he had a nonpalpable left testis, Rest of the clinical examinations are unremarkable. Referred to ultrasound (USG), for testis localization reveals the absence of left testis in the left scrotal sac and inguinal canal. Further MRI of the scrotum reveals the feature of TRS.

Conclusion: TRS in the 4th-decade adult is rately reported in the literature. The asymptomatic presentation shows the least possibility of neoplasm in TRS patients.

Keywords: Vanishing testis, USG, Cryptorchidism, Testicular ragression syndrome

Background

Variabing testicular syndrome is also known as testicular regression syndrome (TRS) is due to atrophy and disappearance of unitateral testis in the fetal life after the formation of the normal testis. It is a spectrum of disorders; clinical features are depending upon the stage of fetal or early neonatal life at which function of testicles crases.

Case presentation

Young 40-year-old male patient came to the hospital for a routine master health checkup. No significant past surgical or medical history. He is married 10 years before and had two children. His vital parameters were stable. Examinations of the respiratory, cardiovascular system, central

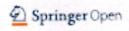
nervous system are within normal limits. The abdomen was soft with no organomegaly. Local examination of the scrotum shows nonpalpable left testis. The right testis appears normal. The patient was referred to USG. USG shows normal right testis with normal echoes and vascularity (Fig. 1). The left scrotal sac is empty. The left testis is not visualized in the left scrotal sac and the left inguinal canal. The patient was further subjected to MRI to find the left testis. MRI shows a normal appearance of the right testis. Left spermatic cord structures are noted within the left inguinal canal. A small soft tissue nodule was noted in the tip of the left spermatic cord (Figs. 2, 3, 4, 5).

Left testis is not separately visualized in the left scrotum, inguinal canal, or pelvis. Features are suggestive of left TRS. The patient is not willing for surgical exploration and was advised to have a follow-up.

Discussion

Vanishing testicular syndrome is also known as testicular regression syndrome (TRS) is due to atrophy and disappearance of unilateral testis in the fetal life

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Research Article

Study on the Role of Non Penetrating Titanium Clips in Dural Repair

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Abstract

Study design: A Prospective study.

complication often seen in spine surgeries. Primary repair of dura using conventional techniques with sutures (silk or prolene) is considered gold standard in management

Titanium clips as an alternate for the sutures in Dural closure has been described in literatures. The surgical use of titanium clips alone for the primary repair of dura in spine surgeries is yet to be substantiated. Aim of this study is to assess the role of non-penetrating Titanium

Journal of Spine Research and Surgery

clips in Dural repair surgeries.

Objective: Dural injuries (Durotomy) are a common Methods: This is a study conducted from November 2017 to July 2019 involving a total of hundred forty one spine patients. Thirty seven patients who had undergone spinal epidural steroid injections and scoliosis surgeries were excluded from the study. Of the hundred and four cases, fifteen cases had undergone Dural repair. Non-Overview of Literature: The use of Non-penetrating penetrating Titanium clips were applied in five of the

> Results: Among the five cases, three were female and two male patients. Three cases undergone spinal decompression and fusion, one case of microdiscectomy

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RESEARCH ARTICLE

Impact of the initial phase of COVID-19 pandemic on surgical oncology services at a tertiary care center in Eastern India

Mahesh Sultania MCh | Dillip K. Muduly MCh | Vigneshwaran Balasubiramaniyan MS | Mohammed Imaduddin MS | Ephraim R. DNB | Itisha Chaudhary DNB | Abhitesh Singh MS | Anshul Jain MS | Lalchhandami Colney MS | Sachin Ambre MS | Dipin K. R. MS | Madhabananda Kar MS O

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Abstract

Background: The COVID-19 pandemic has caused a global health emergency and affected the resources in both the public and private health sectors significantly. The present study aims to assess the impact of the pandemic on the services by the department in the first 3 months since the first COVID case in the region.

Methods: The study period was from 16 March to 15 June 2020. We guaried the database for data on site of the tumor, diagnosis, stage, tumor board decisions and planning, surgical procedures, adjuvant treatment, and follow-up details. The change in tumor board decision and actual treatment taken by the patient were all recorded, taking into consideration the COVID-19 pandemic.

Results: Among the 1567 patient contacts, 1306 were out-patient visits and 261 teleconsultations. Fifty-four patients underwent surgery from the 87 admitted to the hospital. Ten preoperative patients and two postoperative patients were tested for COMD and reported to be negative.

Conclusions: The diemma of providing cancer surgery services to the patients in this pandemic has been global. Strict measures and guidelines can help to overcome the COVID randemic time keeping in mind the locoregional logistics.

KEYWORDS

COVID-19, surgical oncology, teleconsultations

1 | INTRODUCTION

The COVID-19 pandemic has caused a global health emergency and affected the resources in both the public and private health sectors significantly. India reported its first case on 30 January 2020.1 On 11 March 2020, the World Health Organization (WHO) had declared it as a global pandemic and as a public health emergency of international concern." Our institute-Al India Institute of Medical Sciences (AIIMS), Bhubaneswar, is situated in the Khordha district of Odisha state in Eastern India. The state reported its first case on 16 March 2020.7 The Covernment of

India on 24 March 2020 amounced a nationwide 21-day lockdown period from 29th March as a preventive measure." The lockdown was further extended in different phases. The fear, as well as attempt for preparedness of pandemic, brought changes in the modus operandi in our institute. The present study aims to assess the impact of the pandemic on the services by the department in the first 3 months since the first COVID case in the region. The secondary objective is to report the population catered, handling of the out-patient department (OPD), clinics and teleconsults tions, types and stages of cancer, surgical procedures, and COVID-19related events.

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Gase Report

A Rare Case of Recurrent Massive Petrous Bone Cholesteatoma: Subtotal Petrosectomy without Blind Sac Closure

Santhanakrishnan Kallavaradan, Poornima Shankar Bhal, Nisha Muruganidhi, Setha Palaniappam

Department of EVT, Sri Manakola Vinayagar Medical College and Hospital, Puducherry, India

Abstract

Petrous bone cholesteanoma is a rare challenging disease that accounts for 4%-9% of all petrous bone lesions. Subsotal petrosectomy with mastoid obliteration without blind sac closure is presented here. A 25-year-old female patient presented with right ear discharge for 5 days, with a history of right ear surgery 19 years back. Right ear external auditory canal showed stenosis suggestive of blind sac closure in the past. High resolution computer tomography and magnetic resonance imaging of temporal bones were suggestive of massive cholesteatoma in right petrous bone with extension into the posterior cranial fossa. As the patient refused blind sac closure, the patient underwent right substatal petrosectomy, with mastoid obliteration, with wide meanoplasty. The patient is on regular follow-up without any complications. Although blind sac closure is routinely done, mastoid obliteration with wide meanoplasty is an alternative method without increased incidence of complications. Early patient reporting and clinical suspicion of recurrence and prompt weatment is facilitated by wide meanoplasty.

Keywords: Cholesteatoma, mestoplasty, subtotal petrosectomy

INTRODUCTION

Petrous bone cholesteatoma is a rare disease that accounts for 4%-9% of all petrous lesions which can be congenital or acquired cholesteatoma. There are many types of petrous apex lesions such as cholesterol granuloma, mucocoele, arachnoid cyst, acoustic neuroma, epidermoid cyst. Incidence rate of congenital cholesteatoma is 2%-5% with a male predominance of 3:1.19 Petrous bone cholesteatoma is classified according to Sanna's classification. Subtotal petrosectomy was described by Fisch as the complete exenteration of all pneumatic tracts in the temporal bone. Subtotal petrosectomy was performed in this case with mastoid obliteration without blind sac closure.

CASE REPORT

A 25-year-old female patient presented to ear, nose, and throat (ENT) outpatient department of a tertiary care hospital with complaints of scanty, foul-smelling discharge from right

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ear for 5 days associated with throbbing type of pain in the right ear. She gave a history of mild hearing loss in the right year since childhood. She gave a history of right ear surgery done at the age of 6 years elsewhere. Ear was free of discharge or pain since then. Complete ENT examination revealed purulent discharge in the right external auditory canal suggestive of previous blind sac closure. Tuning fork tests and Pure Tone Andiometry were suggestive of moderate conductive hearing loss in the right ear. Facial nerve and vestibular function tests were normal. The rest of the ear, nose, and throat examination was normal.

High-resolution computed tomography was suggestive of soft tissue lesion in the right mastoid cavity with erosion of tegmen tympani Suggestive of cholesteatoma [Figure 1]. Magnetic resonance imaging brain (plain) was suggestive of a

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Study on the Outcomes of Desarda Repair in Inguinal Hernia Surgery

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ABSTRACT

BACKGROUND

Inguinal hemias are one of the commonest problems encountered by the treating phskians. Even though the learning curve for Lichtenstein hemioplasty is less, there is usage of a foreign body which may produce mesh reactions leading to various other surgical complications. Also the cost of the mesh is a little higher which may not be affordable for people belonging to low or very low socio-economic class especially in developing countries like India, Desarda's repair is a tissue based technique of hemia repair using an undetached strip of external oblique aconeurosis to strengthen the posterior wall of the inguinal canal.

METHODS

This is a hospital based cross sectional study. All patients admitted to the hospital with the diagnosis of Inguinal hemia and fulfilling the Inclusion criteria were counselled about the study. After obtaining informed written consent, all the study participants were subjected to a standard questionnaire both pre operatively and post operatively. Patients were followed up for a period of 6 months for assessing chronic postoperative pain, to record the post-op day on which they resumed their regular activity and the recurrence rate. Those participants who were unable to attend the review were contacted through the phone and questionnaire was completed.

RESULTS

A total of 165 patients was studied between Oct 2017 and May 2019. Mean operating time was found to be 44.63 ± 7.76 mins; the cost for surgery in 99.4% was between Rs. 1000-2000; 2.4% patients had developed seroma and only 1 person developed haematoma; none of the subjects had infection or recurrence; 77.6% had a pain score of 4 on POD 1, 96.4% had a pain score 2 on POD 2; mean duration of hospital stay was 4.9 ± 0.99 days; mean duration of resuming duty was 18.58 ± 3.43 days.

CONCLUSIONS

Desarda's technique is cost effective and therefore can be done in patients of all socio-economic classes. Our results in this study after Desarda repair are good and similar to the results of Liechtenstein or Shouldice techniques. Hence, Desarda method seems to be an attractive alternative. It is safe, fast, simple and easy to learn and perform with minimal complications or recurrence.

KEYWORDS

Inguinal Hernia, Hernioplasty, Desarda Repair, Cost Effective

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Comparison of Different Scoring Systems in Predicting the Severity of Acute Pancreatitis: A Prospective Observational Study

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Abstract

Background

Acute pancreatitis (AP) is an inflammatory condition of the pancreas mostly due to aicohol or gallstones. Various scoring systems were involved in identifying the severity of the disease. The standard single score to identifying the severity remains uncertain.

Methodology

This prospective observational study was carried out for two years in a tertiary care center from South India. The diagnosis of AP was made based on Arianta criteria, and a total of 164 patients were included. All patients were assessed by acute physiology and chronic health evaluation II (APACHE II), bedside index for severity in AP (BISAP), modified Giasgow score (MGS), and Ranson score on admission and 48 hours after admission scores. Procalcitonin was done in all patients with AP. Contrast-enhanced computed tomography (CT) of the abdomen was done in 69 patients who had features of severe acute pancreatitis (SAP). Sensitivity, specificity, positive predictive value (PPV), negative predictive value (NPV), and diagnostic accuracy were calculated for each score, and procalcitonin for CT documented severe patients and organ failure patients together.

Results

A total of 164 patients were included in this study. CT abdomen showed a modified CT severity index (MCSI) >8 in all 69 (100%) patients. APACHE II score could predict SAP based on CT findings in 44 patients (65.76%), BISAP score in 22 patients (31.88%), MGS in 55 patients (79.71%), Ranson score at admission in 31 patients (44.92%), Ranson score 48 hours after admission in 44 patients (65.76%), and procalcitonin on admission in 69 patients (100%) when cut-off used as per the literature. APACHE II score could predict SAP in cases of AP (n=164) in 52 patients (50%), BISAP score in 27 patients (26%), MGS in 79 patients (76%), Ranson score at admission in 34 patients (33%), and Ranson score 48 hours after admission in 61 (59%) patients when cut-off was used as per the literature. This study demonstrated that Ranson score on admission had a good area under the curve (AUC). AUC (0.8483), APACHE II (AUC 0.7708), and Ranson score 48 hours after admission (AUC 0.8167) had a fair accuracy. BISAP (AUC 0.6599) and MGS (AUC 0.6486) had poor accuracy for the prediction of severity in AP based on receiver operator characteristic (ROC) curves.

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Original Research Article

DOI: http://dx.doi.org/10.18203/2349-2902.isj20202391

Systemic inflammatory response syndrome as a predictor of poorer outcomes in diabetic foot infection: a prospective analytical study

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Received: 01 March 2020 Revised: 10 April 2020 Accepted: 30 April 2020

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ABSTRACT

Background: This study was done to diagnose the seventy of infection in a group of hospitalized diabetic foot infection (DFI) patients based on the presence or absence of systemic inflammatory response syndrome (SIRS) and compare the outcomes.

Methods: This was a single-center cohort study, in which 50 consecutive DFI patients having SIRS and 50 consecutive patients not having SIRS were included. Patients were followed for the duration of the hospital stay; parameters for glycaemic control, minor and major amputation, microbial culture, duration of hospital and ICU stay.

and mortality was recorded.

Results: The relative risk of major amputation among the patients of DFI who presented with SIRS was 2.66 times higher compared to who was not having SIRS at presentation (95% CI, 1.56-4.55). The presence of polymicrobial infection also had a statistically significant association with the incidence of major amputation. The duration of hospital stay was -9.5 days longer in the DFI patients who presented with SIRS compared to who was not having SIRS at the time of presentation [8.00 (4.00-20.50) days versus 17.50 (10.75-38.25) days]. DFI patients with SIRS required a significantly prolonged ICU.

Conclusions: SIRS can be used as objective criteria to predict poorer outcomes in the diabetic foot infection patient and also to classify it.

Keywords: DFI, Morbitity, Sepsis, SIRS, Quality of life

INTRODUCTION

Diabetes mellitus has been a global epidemic of 21st century. In 2015, International Diabetes Federation (IDF) published its seventh atlas, which estimated that 415 million people among the adults of age group 20-79 years worldwide are suffering from diabetes mellitus. Which amounts to 8.8% of adults aged between 20-79 years of age. One in eleven adults is suffering from diabetes mellitus. Taking ongoing trends into consideration IDF predicted by 2040, 642 million people worldwide will be

diabetic. India is house for 69.2 million diabetics. It ranks second in the absolute number of diabetics following China at first place.

Most dreaded complication of diabetes mellitus is lower extremity amputations. Patients who are undergoing lower extremity amputation will require ipsilateral or contralateral amputation within next three to five years. Five-year mortality related to diabetic foot ulcer is very high. According to Moulik et al, five-year mortality rate for patients with diabetic foot ulcer is 45%, 18% and 55%.

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Original Article

Prevalence of Psychiatric Morbidities among Children of Alcohol-Dependent Patients – A Hospital-Based Cross-Sectional Study

Harsh Avinesh Thappa, Arun Selvaraj, Vinoth Krishna Dass

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Abstract

Background: Children of alcoholics (COAs), particularly experience life uniquely in the families of alcoholic parents. They are more likely than others to suffer from various physical, emotional, and mental health problems. Aims: The aim of this study is to estimate the prevalence of psychiatric morbidity among the children of alcohol-dependent patients attending our tertiary health care center, and further determine the association between clinical-sociodemographic background and psychiatric morbidities among these children. Methods: It was a cross-sectional study consisting of 100 COAs. Data collections tools used were: Pro forma for sociodemographic details, the Kiddie – Schedule for Affective Discoders and Schizophrenia for school-aged children (6–18 years) Present and Lifetime version (K-SADS PL), Learning Disability Checklist and Wechsler's Intelligence Scale for Children. The data were entered using statistical software Epi-Info (version 3.7.2.1) software package, analyzed using the SPSS software version 24.0. Results: About 60% of COAs assessed had the presence of psychiatric morbidity, with arxively spectrum and depressive disorders being the most commonly associated diagnosis. It was noted that female gender had a positive association with arxively spectrum disorders. Further, a history of child abuse had a positive association with evidence of psychiatric morbidity in these children. In addition, family history of antisocial personality traits had a significant association with conduct disorder in COAs. Conclusions: To conclude, psychiatric morbidities were identified in about 60% of children whose fathers were alcohol dependent. These COA's commonly manifested with two major psychiatric morbidities, ramely arxively and depression. Nearly 1/10* of these children were noted to have substance use as well.

Keywords: Child abuse, children of alcoholics, conduct disorder, psychiatric morbidity

INTRODUCTION

Alcoholism is a global health issue. The WHO estimations reveal around 208 million people with affected around the world, about 4.1% of the population above 15 years of age.

Alcoholism affects not only the individual, but the functioning of his whole family and the environment around him. Living with an alcoholic can be constantly stressful, affecting each individual distinctively. Children of alcoholics (COAs), particularly experience life uniquely in such families. Hence, COA may be unable to nurture in developmentally healthy ways. COAs are more likely than others to suffer from various physical, emotional, and mental health problems. Furthernore, they are likely to have problems in school and may land up in alcohol abuse and use of other substances as well. Life in an

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alcoholic family is typically characterized by guilt, fear, pain, stress, and insecurities. However, these children seldom seek help from others, even in adulthood, thus enabling alcoholism to become a family secret. Greater effort should thus be taken from the medical and social service systems to recognize this susceptible group and provide early interventions to them.

Growing up in an alcoholic family does not essentially mean that the child will develop problems. There are youngsten who show little or no signs of difficulty and are also successful as adults. Even so, a family history of alcoholism serves

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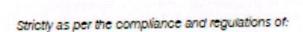
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Association between Quality of Sleep and its Effect on Glycaemic Control in Patients with Type 2 Diabetes Mellitus-A Pilot Study

By Dr. Firas Rauf Mammoo & Prof. Dr. S. Girija

Introduction- Diabetes mellitus is a common metabolic disease. Nowadays, sleep complaints are increasing day by day due to the restriction in bed time resulting in chronic partial sleep loss. Type 2 diabetes mellitus accounts for 95% of all of diagnosed diabetes worldwide. Several studies have recognized sleep disorder as a novel risk factor for diabetes. Sleep disorder plays a vital role in the development of diabetes via various metabolic and neuroendocrine pathways. Nocturia and neuropathic pain were explained as two possible causes of decreased sleep quality. People who have sleep disorder either in the quality or quantity experienced reduced insulin sensitivity, which results in elevated blood glucose that can aggravate the progress of diabetes. There are limited studies from India on the association of sleep quality and diabetes control status. In this study, we aimed to find the quality of sleep in patients with type 2 diabetes mellitus and its correlation with glycaemic control.

GJMR-8 Classification: NLMC Code: WK 810





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Original Article

Predictors of impending cardiac arrhythmias by electrocardiographic markers in proven obstructive sleep apnea patients

ABSTRACT

Background: Obstructive sleep aprova is proved to be one of the causes of audden cardiac death due to undocumented transient cardiac arrhythmias. So we studied the changes in various electrocardiographic parameters (Pwave duration, QPIs duration and Toesk to Tend interval) and its association with increasing severity of USA by AHI to predict the risk of impending cardiac atrial and ventrioular arrivolmas in these patients. Objective: This study compares the risk of impending cardiac arrhythmias by electrocardiographic parameters with the increasing severity of obstructive sleep apnoes by AHI (apnoes hypopnes index) in polysomorography

Methodology: The study was conducted in a rural based teaching tertiary care hospital in Puducherry India. The electrocardiogram(EGG) of the 30 proven CSA patients were analysed for parameters like P wave dutation, QRS dutation and peak of T wave to end of T wave interval. Any deviation from the normal duration is recorded and compared with the severity of CISA by AHI to estimate the risk of arrhythmogenicity.

Results: Out of 30 OSA patients in the study group 7 (23.3%) were found to have mild OSA (i.e. AH- 5 TO 14 events.hr) , 6 (20%) were found to have moderate OSA (i.e AHI-15 to 29 events/hr) and 17(56.7%) were found to have severe OSA(i.e AHI-30 and above). The pivalue is significant [40 001] for electrocardiographic parameters like Tp-Te interval and P wave duration in patients with AH more than 15 events/hr (I e moderate and severe OSA) and pivalue for QRS duration is 0.162.

Conclusion: We concluded that the increase in dutation of F wave, QRS duration and prolongation of Tp-Te interval in electrocardiogram is associated with increasing severity of obstructive sleep aprova tends to possess significant risk of developing impending cardiac strial and ventrioular antitythmias respectively which can be attributed to one of the causes of sudden cardiac death in OSA patients.

Keywords: Apnea hypopnea index, obstructive sleep apnea, P-wave duration, ORS duration, Tp-Te interval

INTRODUCTION

Obstructive sleep apnea (OSA) is the most common type of sleep apnea caused by complete or partial obstruction of the upper airway. It is characterized by repetitive shallow pauses in breathing in spite of efforts to breathe normally. If the symptoms are present in day time also, then it is referred to as OSA syndrome (OSAS). Symptomatic OSAS has been proven to be a risk factor for hypertension, heart failure, and vascular dysfunction and has been proposed to be causally related to both nonfatal and fatal coronary and cerebrovascular events. Preliminary data suggest that there is also a relationship between sleep-disordered breathing, cardiac arrhythmias, and sudden cardiac death. [1]

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Socioeconomic Burden of Type 2 Diabetes with Complications on Families: A Hospital-Based Study in Puducherry

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Abstract

Introduction India is on the verge of diabetes mellitus (DM) epidemic. Within the near future, DM will put a big burden on India's already vulnerable and resourced health care system. The objectives of the study were to (1) estimate DM treatment-related out-of-pocket expenditure (OOPE) among type 2 DM patients with complications from a tertiary care hospital and (2) estimate the economic burden on the household income of these patients due to DM treatment-related OOPE.

Methods A hospital-based cross-sectional study was conducted among known type 2 diabetic individuals with complications admitted in a tertiary care hospital. Using a structured pretested questionnaire required data, such as sociodemographic details, direct costs, and indirect costs in health care of DM, which were collected by a personal interview method.

Results Males constituted around 57% of the 100 patients who participated in the study. The average age of the population was 56 n 10.03 years. The mean monthly income of family (in Indian Rupees [INR]) was 10,375.00 ± 9,201.55. Total expenditure includes the cost of medication, investigation, consultation fee, transportation, and miscellaneous expenditure. The average monthly OOPE in the management of DM for government and private facilities was INR 74 and 1,540, respectively. Among the total cost, the highest share was accrued toward medicines followed by diagnostics, miscellaneous, and transportation. There were 22% of families incurring catastrophic expenditure at the highest threshold of 40%. Socioeconomic status, history of at least one hospitalization in the past 6 months, and type of medications were factors found to be associated with costs.

Conclusion Heavy economic burden highlights the urgent need for the health care agencies and policy bodies to plan and prioritize local health policies and DM management schemes accordingly.

Keywords

- diabetes mellitus
- complications
- healthcare expenditure
- cost of illness

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Recurring Fever in a Cancer Patient – "Light at the end of the Tunnel" – Case Report

Authors

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Abstract

Recurrent fewer can be the manifestation of autoimmune disease, malignancies and infections. Working up the cause of fewer in a patient with underlying malignancy and under treatment can be a challenging task. We present a case of 46 years old female with breast carcinoma, who presented with recurrent fewer episodes. The patient was evaluated and found to have catheter (tunnelled) related septicaemia, septic emboli and endocarditis. Device related infections need high index of suspicion and treatment should be planned based on the type of catheter and organisms.

Keywords: Right sided infective endocarditis, septic emboli, tunnelled catheter, device related infection.

Introduction

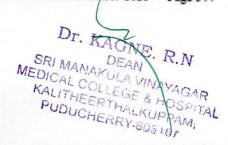
Recurrent fever can be the manifestation of a wide range of diseases including autoimmune disease, malignancies and infections. A recurrent fever is defined as >12 episodes over a period of 12 months with a minimal interval of seven days between episodes. Such cases are approached by taking a comprehensive history, detailed physical examination and relevant laboratory investigations. Most unexplained fever are often diagnosed within one week of hospital evaluation or 3 outpatient visits. We present a case of breast

carcinoma who has completed a course of chemotherapy and under radiotherapy for the past l month.

Case Report

A 46 year old female with left breast carcinoma who underwent modified radical mastectomy and on chemotherapy through a chemo-port in right internal jugular vein presented with complaints of intermittent fever with chills and rigors for one and half a month and altered behavior since 2 days and was treated elsewhere with 5 days course of

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Journal Of Medical Science And Clinical Research

A case report of stroke due to brain stem tuberculoma

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Abstract

Tuberculosis still highly prevalent in developing countries commonly affects the lungs. Central nervous system (CNS) involvement in tuberculosis is common in India but tuberculoma a manifestation of tuberculosis which mimics a tumor is not common. most of the CNS tuberculoma presents with seizures or focal signs, here we presents an elderly female with acute CVA with right sided hemiparesis, computed tomography of the brain showed a hyperdense lesion in the left pons. Further contrast enhanced MRI brain revealed left pontine tuberculoma. There are few case reports of tuberculoma presenting as acute trade.

Keywords: Stroke, brain stem, tuberculoma.

Introduction

Tuberculosis a disease caused by acid fast mycobacterium tuberculosis complex bacteria commonly affect the lungs although other organs are involved in about one third of cases. In India with a huge burden of tuberculosis (incidence of 2.2 million cases in 2015) extra pulmonary tuberculosis is a common manifestation. CNS tuberculosis presents as basal meningitis which may complicate by causing obstructive hydrocephalus. Tuberculosis is a rare manifestation of CNS tuberculosis presenting as a space occupying lesion with focal signs or seizures.

Case Report

A 67 years old female patient presented with sudden onset of difficulty in using right upper and lower limb for one day duration she also had shurring of speech and urinary incontinence. No history of trauma, not a diabetic, hypertensive or coronary artery disease. No history of pulmonary tuberculosis in past or contact history of tuberculosis. On examination patient was conscious and oriented, pallor +, pulse -94 bpm and blood pressure was elevated 160/110mmhg. Cardiac and respiratory auscultation was normal and CNS examination revealed patient conscious and oriented, higher mental functions were intact. Patient had right UMN facial nerve palsy and urinary incontinence. Her power was 2/5 in right upper and lower limb with hypertonia and exaggerated deep tendon reflexes, bilateral plantar extensor. Patient was admitted as a case of acute CVA with right hemiplegia with UMN facial palsy and evaluated.

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Effect of Interactive Lectures and Formative Assessment on Learning of Epidemiology by Medical Undergraduates – A Mixed-Methods Evaluation

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Abstract

Background: Previously, we had a course in epidemiology for medical undergraduates that was based on traditional lecture methods with no formal formative assessment (FA). We found poor uptake of our course in terms of learning and attendance by students. Objective: The objective was to assess the effect of improved course (interactive lectures and formal FA) in epidemiology on student learning and attendance. Materials and Methods: It was a triangulation type of mixed-methods program evaluation, where both quantitative (quasi-experimental design) and qualitative (open-ended responses) analysis was done. This study was carried out in the department of community medicine in a tertiary care teaching hospital, Puducherry. We improved the quality of the course material, interaction in lectures and included formal structured FA in the last course. Kirkpatrick's framework was used for the course evaluation. We compared the performance of three batches to check the effect of our revisions on students' learning and their attendance. Results: Student's learning outcome was measured using end-of-course assessment scores (Level-2). The percentage of students successfully completing the course improved from 30% to 81% and attendance status of ≥00% improved from 50% to 57%. Learner's immediate reactions (Level-1) were captured using open-ended questions, and content analysis was done. Students appreciated the course material, FAs, and in-class activity. Conclusions: Little improvement in a traditional epidemiology course for undergraduates in the form of interactive lectures and formative feedback and providing the student with course material led to significant gains in students' knowledge and attendance.

Keywords: Epidemiology, feedback, formative assessment, interactive lecture, Kirkpatrick's evaluation

INTRODUCTION

Learning epidemiology improves critical thinking and the problem-solving ability of students. However, medical undergraduates pay less attention to this subject, assuming that skills in this subject are not related to practicing medical service in future. [9,4] Though there are various methods of teaching epidemiology, it is predominantly taught by traditional lecture system in India. [9] Lectures make student passive recipients of information, leading to poor engagement of the learning process. [4] These things make teaching epidemiology a real challenge to them.

Considering the large intake of students in medical colleges, lectures still continue to be the primary mode of teaching. Hence, it is important to look at ways in which the traditional lectures can become a more effective environment for engaging

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students in gaining adequate knowledge and skills. Scientific literatures recommend that lectures can be made effective by modifying it following good teaching-learning principles and assessment format. However, there exists a pancity of evidence, especially at local context, showing the combined effect of interactive teaching and formative assessment (FA) on learning epidemiology by medical undergraduates.

In the department of community medicine (DCM), we have been running a course on epidemiology for medical students

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Original Research Paper

Physiology

ANALYSIS OF HEMATOLOGICAL PARAMETERS IN A POPULATION WORKING IN SMALL TEXTILE INDUSTRY IN SOUTH INDIA.

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BACEGROUND: In India, With ropid industrialization of the developing world, testile dust induced lung ABSTRACT diseases are paised to become a global health position. The number of industries is on the increase in index, and several industries like agriculture, but the industries, contribute mainly manifeld for combativities in the increase, in Index, and several industries like agriculture, but the industries, contribute mainly manifeld for combativities in the ing. Workers are involved in different trades such as dysing, aptending, searcing and proving in textile units involves working with warving machines. The workers are exposed to vibration, cotton dust six Very less studies are available. MATEMALS AND ME BRODS: A total of 80 males individuals, 30 peoples involved in warving sector in textile industry and 30 peoples not involved age and see matched, age group 30-40 years, was included in this study Institutional Dibinal approval was obtained informed consent obtained Vertices persons the sincheding general semination, SM, total WSC count Differential count, Absolute scottophil count (SSR, was obtained. The obtained data was analyzed using standard statistic almethods. PESULTS: The scottophil counts of weavers (14.96±5.58) was found to be higher from non-weavers (5.53±2.37) and it was found to be attributively standard counts of weavers (14.96±5.58) was found to be higher from non-weavers (5.53±2.37) and it was found to be a statistically standard counts of weavers (14.96±6.58) was found to be higher from the bigher in warvers (14.96±6.58). found to be statistically significantly <0.05). The ADC (1241.36.2498.36.) were found to be higher in warrens than non-warren (540.33 \pm 318.82.) and was found to be highly significant (p<0.05). The changes in TC(851 3 33 ±2415 4.9480 ±2820 13) DC-N(58±12.00,71.83±10.732), L(28.88±9.08,22.7±10.61), E59(28.96±12.60,24.8±11.11) were found to be insignificant (p>0.05). CONCLUSION: Among the hemotological parameters, econophilia is significant finding in weavers. This significant finding will contribute to allergic diseases. The warving a color tentile workers should be emphasized about the use of protective equipments while working.

KEYWORDS: Hematology Textile Industry, we own a Ecotophile.

INTRODUCTION:

In India, With rapid industrialization of the developing world. warring dust induced lung diseases are poised to become a global health problem. The number of industries is on the increase, in India, and several industries like testile industry, agriculture industry contribute mainly mankind for confedeble lising. Warbers were involved in different tasks such as dysing, spinning, wearing and packing. Wearing in beetile units involves working with warping and wearing machines. The workers are exposed to vibration, cation dust and noise. Indices major industrial output by tentile industry, provides employment to many million people. Comprises of two sectors, highly mechanized mile on one hand and hand weaving & spinning on other hand. Between the two fails the and-socie power loomasctor".

m and Objectives:

- Tomerause the hemotological postumeters like total White Blood Cell count, Differential count, Abedute eastnophil count . Enthrough sedimentation rate in a wearing population of tentiles actor.

 2. Tomeraum the charges in hematological parameters.
- To compare the changes in hematological parameters canong weavers with people act exposed towersing.

BACKGROUND:

Weaving, sector of textile industry, on occupation followed commonlyin Southern part of India .Common occupational health hazards in textile industry are respiratory, musculosisistal estructory problems ". There are sumenous reported studies of warrens in developed countries but very as por set, settings or wateries. But studies conthe is montologico perconsise or one very is whence this a tudy was undertaken.

MATERIALS AND METHODS:

This is a cross - sectional study involving 60 males individuals 30 individuals exposed to wanting and 30 people not express towarding, controls of the some environment, in

the age group 3040 years, age and sex matched , were included. Institutional Ditical Committee approvisions abbained informed consent was obtained from the individuals posticipating in the study. People having any H/O any respiratory problems, Diabetes, Hypertensives JHD were excluded from the study. Various parameters including general examination, respiratory system examination Height, Weight, BMI, total WSC count, differential count, AEC, ESR, were obtained Blood samples were callected during daytime around SAM, undercomptic precoutions. The obtained data was analyzed using standard statistical mathoda

RESULTS:

Baseline characteristics are shown in table 1. The eastnaphile and AEC are shown in figure 1.

The ecsinophile cunts of weavers (14.98±5.56) was found to be higher than nonweavers (5.53±2.37), and the difference was found to be statistically significant (p<0.05). The AEC of warrens was found to be higher (1241.36±498.36) than non warrens/540.83 ±316.62) and the result was found to be highly significant (p<0.05), but changes in TC (8513.33±2415.4,9480±2620.13), DC. N(58±12.00,71.83±10.732), L(26.66±9.08,22.7±10.61), ESB(28.98 \pm 12.89,24.8 \pm 11.11) were found to be statistically insignificant (p > 0.05)

	Wearest (== 30)	Momeracres (=-30)	Pechae
Age (yes)	43.28±5.48	45.13±4.38	-
BMD(kg/wg.m)	23.93±3.89	2474±322	-
Total Count(Cells, Cu.M m)	8513.33±2415.42	9 490 ±2820.13	0.8
Neutrophile(%)	58±12	71.83±10.73	0.1

GIRA - GLOBAL JOURNAL FOR RESEARCH ANALYSIS # 21

Dr. RAGNE. R.N SRI MANAKULA VINAVACAR MEDICAL COLLEGE & HOSPITAL KALITHEERTHALKUPPAM, PUDUCHERRY-605107.

Prescription audit of a teaching hospital in South India using World Health Organization core prescribing indicators - A cross-sectional study

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Departments of Pharmacology and ¹General Medicine, Sri Manakula Vinayagar Medical College and Hospital, Puducherry, India

Abstract Aim: World Health Organization (WHO) core prescribing indicators are highly standardized tools in reliably assessing the essential aspects of drug utilization pattern. It is critical that the rational use of drug prescribing is scrutinized for the utmost benefit of patient welfare. In this study, we aim to assess the prescription pattern and prescribing behavior of physicians using the WHO-recommended core prescribing indicators at a teaching hospital in South India.

> Materials and Methods: A prospective, descriptive cross-sectional study was conducted in the general medicine outpatient department of a tertiary care hospital for a period of 1 month in June 2019. A total of 600 prescriptions were sampled based on the WHO "How to investigate drug use in health facilities" document recommendation. The WHO guidelines and methods were observed to ensure data reliability. Descriptive statistical analyses such as frequencies, percentages, mean, and standard deviation were used to present the data.

> Results: The WHO core prescribing indicators analysis revealed that the average number of drugs per encounter was 2.35 ± 1.1 and only 796 (55.44) of the drugs were prescribed by generic name. Whereas, the percentage of encounters prescribed with an antibiotic 44 (7.34) and an injection 63 (10.54) was less than the ideal recommendations as per WHO and 1265 (88%) of the drugs were prescribed from the National List of Essential Medicines.

> Conclusion: This study on prescription pattern audit done using the WHO core prescribing indicators highlights that prescriptions encountered with antibiotic and injection use were in accordance with the WHO recommendations.

> Keywords: Fixed-dose combination, generic drugs, prescribing indicators, prescribing pattern, prescription audit, rational prescribing

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E-mail: dmityspharmeoology@gmail.com Received: 03-06-20, Revised: 25-09-20, Accepted: 03-10-20, Published: 08-01-21

INTRODUCTION

Prescribing pattern behavior reflects the health promoter's responsibilities toward the rational use of drugs. Audit

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of such presenbing practice aids in improving the drug use pattern by identifying the unances and critical steps

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How to cite this article: Meenslohi R, Selvaraj N, Anandabasiar N. Charmodharan A, Eachtrath AK, Rajamohammed MA. Prescription audit of a bearing hospite in South India using World Health Organization core prescribing Indicators - A cross-sectional study. Perspect Clin Res 2022;13:130-6.

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Dr. KAGNE, R.N SRI MANAKULA VINAYAGAR MEDICAL COLLEGE & HOSPITAL KALITHEERTHALKUPPAM, PUDUCHERRY-605107.

Original Article





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Assessment on knowledge and practice of postexposure prophylaxis of human immuno-deficiency virus among staff nurses and paramedical workers at a tertiary care hospital in South India

Harsha Vardhini, Nitya Selvaraj, R. Meenakshi

Abstract:

INTRODUCTION: Adequate knowledge about the presence of postexposure prophylaxis (PEP) against human immuno-deficiency virus (HIV) is imperative for health-care workers. This study focuses on the evaluation of the present knowledge and practice of nurses and paramedical workers on the post exposure prophylaxis against HIV.

AIM: The aim of this study is to assess and compare the knowledge and practice of PEP against HIV among Staff Nurses and Paramedical workers.

SUBJECTS AND METHODS: A descriptive cross-sectional questionnaire study about the knowledge and practice of PEP against HIV among Staff nurses and Paramedical workers done at a tertiary care hospital in South India. The analysis of the data was performed using SPSS software version 24. The statistical tests used to compare the knowledge between nurses and paramedical workers was Chi-square test. P < 0.05 was considered statistically significant.

RESULTS: About 839 nurses and 66 paramedical workers participated in the study. An overall of 65.4% of the study participants had a good level of knowledge, higher (P=0.000) among nurses (71.1%) compared to paramedical workers (36.8%). However, only 23% of nurses and 14.8% of paramedical workers received PEP after a needle prick injury.

CONCLUSION: This study revealed a low-level practice of HIV PEP among staff nurses and paramedical workers despite their good knowledge. This can be improved by providing formal training sessions to the health care workers.

Keywords:

Human immuno-deficiency virus, nurses, paramedical workers, postexposure prophylaxis

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Introduction

Human immunodeficiency virus (HIV)/
acquired immuno-deficiency syndrome
(AID5) is one of the most serious public
health challenge, and also a leading cause of
mortality prevailing across the globe. FI At the
end of 2016, the WHO statistics highlighted
that 36.7 million people are living with HIV. FO
Moreover, in the same year (2016), India was

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declared to be the third-most HIV epidemic country having 2.1 million sufferers. Of which 0.27% are residing in Tamil Nadu seen during 2014. The Indian Centre for Disease Control has charted out the guidance to prevent the occurrence of new infection by providing technical assistance, as well as increasing the access to service for people who are living with HIV by strategies like strengthening laboratory systems and district-level capacity to address HIV.

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Original Research Article

A study to assess the completeness of informed consent documents for biomedical research on human participants submitted to the institutional ethics committee of a tertiary care hospital

Nishanthi Anandabaskar¹, Mourouguessine Vimal^{2*}, Amol Rambhau Dongre³, Rajendrakumar Nivaratirao Kagne*

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Received: 21 October 2019 Revised: 04 December 2019 Accepted: 05 December 2019

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Background: Informed consent is an essential pre-requisite for research on human participants. However, many studies have shown that informed consent documents (ICDs) are incomplete and lack many of the essential elements. The objective of the study was to assess the completeness of ICDs submitted to an institutional ethics committee (IEC) against the Indian Council of Medical Research (ICMR) ethical guidelines for biomedical research on human participants

Methods: This is a retrospective cross-sectional study. The ICDs submitted to the IEC during the period from January 2015 to December 2017 were reviewed for completeness, with the help of a checklist which is based ICMR ethical guidelines for biomedical research on human participants 2006.

Results: A total of 212 ICDs were reviewed during the study period. More than 50% of the ICDs have clearly explained many of the essential elements like nature and purpose of the study (62.3%), voluntary participation (98.6%), procedures (68.9%), risks (71.2%), benefits (92.9%), alternative treatments (60.7%), maintaining confidentiality (99.1%), no loss of benefits on withdrawal from the study (87.8%) and contact details of principal investigator (99.5%). However, the other essential elements of the ICD are either not mentioned or not clearly

Conclusions: This study has shown that although majority of the ICDs submitted for review by the IEC have mentioned many of the essential elements, some of the elements like contact details of Chairman of IEC, future use of sample, compensation for trial related injury and provision of counseling for consent of genetics testing have not been

Keywords: Informed consent form, Institutional review board, Participant information sheet, Research proposal

INTRODUCTION

Informed consent is an essential prerequisite for conduct of any research on human participants. It respects the autonomy of the participants and protects their freedom of choice. Informed consent is defined as "a continuous

process, involving three main components - providing relevant information to potential participants, ensuring competence of the individual and the information is easily comprehended by the participants, and assuring voluntariness of participation. The informed consent process encompasses a comprehensive discussion about

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Ubrogepant: The First Gepant to Pass Food and Drug Administration for Acute Migraine

Stragourounadin Kiruthika, Rajendran Priyadharsini

Department of Pharmacology, Jawahartal Institute of Postgraduate Medical Education and Research, Publicherry, India

Abstract

Migraine is one of the most common and disabling forms of primary headache disorders. It is characterized by the presence of unlikeral pulsatile headache associated commonly with nauses, vomiting, photophobia, and phonophobia lasting for about 4–72 h. Currently, nonsteroidal anti-inflammatory drugs, ergot alkaloida, and triptans are the most commonly used drugs to about an acute attack of migraine. Management of acute migraine is becoming a challenging task to physicians and patients due to several drawbacks faced with the use of aforementioned drugs. This lacture is being filled up by developing drugs against novel targets such as existing perceited peptide (OGRF) and pituitary adenylate cyclase-activating peptide. In December 2019, the US Food and Drug Administration (FDA) approved ubrogepant for the treatment of acute migraine with or without sura in adults. Ubrogepant belongs to a new class of drugs called "Gepants" which are small molecules targeted against the CGRP receptor. The recommended initial dose is 50 mg or 100 mg orally. It follows first-order kinetics and is metabolized to a major extent by CYP3A4-mediated mechanisms. Compared to placebo, ubrogepant ocuses significant and napid freedom from headache, pain and absence of migraine-associated most bothersome symptoms. Nausea, vomiting, and dry mouth are some of its common adverse effects. Ubrogepant with advantages such as good oral bioavailability, lack of vasocomatrictor action, and lack of hepatotoxicity might emerge as a promising drug for terminating an scute attack of migraine in the future. However, long-term clinical studies are needed to ascertain its safety profile.

Keywords: Acute migraine, calcitonin gene-related peptide antagonist, gepant, ubrogepant

INTRODUCTION

Migraine is a form of primary headache disorder and it is characterized by the presence of unilateral pulsatile headache associated commonly with nausea, vomiting, photophobia, and phonophobia. It is prevalent in about 11.6% of global population. Due to its chronic nature and severity, the quality of life and work efficiency are impaired causing economic burden. Nonsteroidal anti-inflammatory drugs, ergot alkaloids, and triptens which are the currently used drugs to abort an acute attack of migraine carry the following disadvantages such as poor tolerability and varied efficacy among patients and they are also contraindicated in ischemic heart disease patients. These drawbacks led to the development of a new class of drugs called "Gepants" which are small molecules targeted against the calcitonin gene-related peptide (CGRP) receptor. Unfortunately, the clinical trials done earlier with other gapants such as oldegepant and teleagepant were terminated due to poor oral bioavailability of olcogopant and hepatotoxicity caused by telcagepant. [1] Ubrogepant is the first gepant to be

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approved by the Food and Drug Administration (FDA) in

December 2019 for the treatment of acute migraine with or

Ubrogepant is an antagonist of the neuropeptide CGRP

receptor. During an acute attack of migraine, trigeminal

nerve stimulation causes release of CGRP, leading to

vasodilation and neurogenic inflammation in meninges.

Ubrogepant, by blocking the CGRP receptor counteracts

the vasodilation mediated by CGRP without causing any

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without sura in adults.[9]

MECHANISM OF ACTION

vasoconstriction.[2,4]

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Original Research Article

Immunohistochemical Subtyping of Hashimoto Thyroiditis With Respect to IgG4 Marker

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E-mail: drvimain@gmail.com Received on 21.08.2020

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Abstract

Background Hashimoto thyroiditis (HT) is the most commonest form of autoimmune thyroiditis with heterogenous clinical presentation. Recently a type of Hashimoto thyroiditis with dense lymphoplasmacytic infiltration and marked fibrotic changes with increased number of IgC4-positive plasma cells and serum IgC4 have been reported in the literature and they have a close relationship to IgG4 related disease (IgG4-RD). On the basis of immunostaining for IgG4, HT was divided into an IgG4 thyroiditis group and a non-IgC4 thyroiditis group and their clinical and histopathological features were studied. Aims and Objectives: To categorize Hashimoto thyroiditis with reference to IgC4-positive plasma cell infiltration and to study the histopathological characteristics of each group. Materials and Methods: It was a retrospective cross sectional study for a period of one and half year. Cases which were histopathologically diagnosed as Hashimoto thyroiditis were included in the study. Immunohistochemistry marker done for IgC4 and the foci with the highest density of positive cells was evaluated. Results: Among the 13 cases of Hashimoto thyroiditis 8 cases were subtyped into IgG4 thyroiditis group and 5 cases into non IgC4 thyroiditis group based on immunohistochemistry. All the cases were females in both the groups and the age of presentation in IgG4 thyroiditis was younger when compared to non IgC4 thyroiditis. Histopathologically, IgC4 thyroiditis showed marked fibrosis and moderate to severe lymphoplasmacytic infiltration with increased IgC4 positive plasma cell infiltration when compared to non IgG4 thyroiditis. Conclusion Immunostaining of IgC4 can help in the subtyping of Hashimoto thyroiditis and are closely related with IgC4 related diseases. IgC4 Hashimoto thyroiditis presents with a distinct histopathological features when compared to non IgG4 thyroiditis.

Keywords: Hashimoto thyroiditis, IgC4: Immunohistochemistry, Fibrosis, Histopathology.

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Case Report

Sunrays and Granules: Rare Presentation of a Great Mimicker

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Virtal M, Satchidarardson A, Aishwarya R. Starteys and Operator Rare Presentation of a Orest Metricker. Online J Health Allied Sex 2000-19(2):13. Available at URL: https://www.ojhas.org/some/4/2020-2-13.html

Submitted: Jun 24, 2020; Accepted: Sep 8, 2020; Published: Sep 20, 2020.

Abstract: Actinomycoms is a chronic granulomatous infectious disease caused by gram positive factoria Actinomyces. It is characterised by variable presentation that mirries malignancy, tuberculosis, nocardia and other furnies organisms. We present a new case of privary cutenous actnomycous in a 36 years old female in left upper extremity which was clinically suspected as liperta. May Granwald Charma started fine needle aspiration strains revealed the classic colonies of Actinomyces with basephilic radiating filaments, confirming the diagrants of actinomycosis. A high degree of chrical suspicion is needed for early diagnoses of Actinomycosis which is readily treatable and carable if agenumialdy managed

Key Words: Actinomycosia, Swelling, Lipona, FNAC

Introduction:

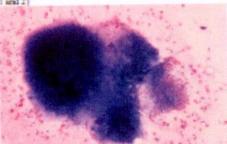
Actinomycosis is a mre, chronic granulomatous infectious disease caused by gran positive bacteria Actinomyces. It is characterised by formation of abscess, sinuses and fibrosis usually in conviculacial region (60%), requiredary (20%), digestive (19%) and genitsurinary tract where it is a great menicker of malignancy, tabercalous, necards and other fungal infections. Involvement of other organs and body parts is uncommon and is usually a secondary lesion from other sites mentioned above.

Primary cutaneous actinomycosis of extremities is highly uncommon with less than 50 case reports in the hierature (1). It is reported to occur in 3 % cases(1) and is due to secondary avolvement from common primary sites by hemotogenous dissernmention. A case of primary actinomycosis of left upper extremity in a 36-year-old female is presented in this ca report because of its meity in location, presentation and to criphois on its masqueracing nature.

Case History:

A 36-year-old female presented to the hospital with the chief complaint of a swelling over left forcers for 1 year which was gradual in oract and slowly increasing in size. She developed pain over the swelling for 2 weeks. There was no prior history of fever and trains. Local economistion revealed a 2x2 cm. swelling with restricted mobility, firm consistency, ill-defined borders and was tender on palpation. The overlying skin especied normal. Based on the clinical examination a provisional diagnosis of Eports was made.

Fine Needle Assination Cytology (FNAC) of the swelling was performed and 0.5 ml of clear fluid was appraint. May Overwidd Cherus steined smars showed colories of Actinomyces with bamphile radating filaments with a sen my appearance surrounded by neutrophils. Many well-formed granulouses correposed of histocrytes were also seen. (Figures and It



by neutrophile (May-Gritmenid-Gioman, v100X)



Fig.2: FNAC amount showing radiating flamentor surrounded by neutrophile (May-Gritowald Gir

OBIAS 2020; 19(2):13 Virnal M, Satchidenerdem A, Aishwarya R. Surrays and Granulex Rare Presentation of a Great Minusker

Dr. KAGNE, R.N SRI MANAKULA VINAVAGAR MEDICAL ODLLEGE & HOSHIJAL MEDICAL ODLLEGE & HOSHIJAL KALITHEERTHALKUPPAM, KALITHEERTHALKUPPAM, PUDUGHERRY-605107.

ORIGINAL ARTICLE

Phytochemical Constituents of Leaves of Moringa oleifera Grow in Cuddalore District, Tamil Nadu, India

Ramalingam Sudha¹, Xavier Chandra Philip², KVP Suriyakumari³

ABSTRACT

Aim: The plant products are used to treat various diseases instead of synthetic drugs owing to their least side effects. One of the important plants is Moringo oligiting. The micronutrients of Moringo oligiting leaves (MOL) have anti-inflammatory, antidiabetic, antihypertensive, antieplieptic, and antifumor properties. Literature explored the contents of MOL from various countries and thus, the present study aims to evaluate the existence of phytochemicals present in the MOL grow in the Cuddalore District, Tamil Nadu, India.

Materials and methods: The maceration technique was employed to extract the active contents of the powdered leaves with 70% ethanol. The acquired crude extract was subjected to detailed phytochemical analysis. We have tested MOL for the presence of alicaloids (Mayer's test), proteins and amino acids (carthoproteic test and ninhydrin test), flavonoids (alicaline reagent test), glycosides (Legal's test), saponins (foam test), and tannin (gelatin test). The presence of reducing sugars, carbohydrates, phytostemis, and triterpenoids was tested by Fehling's test, Wollsch's test, Lebermann-Burchard's test, and Salkowski's test, respectively. Standard chemical tests were used for testing steroids, anthraquinones, and faits and fixed oils.

Results: Stronger presence of some chemical compounds like proteins and amino acids, flavonoids, alkaloids, steroids, and saponins as well as other ingredients were detected. The extract showed weak positivity for phytosterols, reducing sugars, and fats and fixed oils. But carbohydrates, anthraquinones, tannin, and triferpenoids were not identified in the extract of MOL.

Conclusion: The presence of alkaloids, flavonoids, and saponins can exhibit stronger anticoldant activity against the free radicals, which are of great medicinal value. The active components extracted from MOL may be useful as a drug in various diseases induced by the reactive oxygen species.

Keywords: Drumstick leaves, Maceration, Phytochemical, Saponins.

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INTRODUCTION

The plant products are used to treat various diseases instead of synthetic drugs owing to their least side effects. Hence, the field of ancient medicine reached peak growth in the last few years. In India, the drugs derived from plants form the major component of traditional medicine like Ayrurveda and Siddha. The investigation of herbal substances was conducted due to their efficient medicinal value, which laid the platform for the discovery of newer medicines to cure various aliments. The off the important plants with its great medicinal value is Moringo ofciting leaves (MOL), which belongs to the monogeric genus Moringocoe family.

The Moringacene family contains 13 species among which one of them is Moringo oleiferg. It is widely cultivated in countries like India, Pakistan, Afghanistan, Bangladesh, Sri Lanka, other parts of Asia, the Arabian Peninsula, Africa, southern Florida, West Indies, Paraguay, Peru Mexico, and Brazil.2 It is a small, fast-growing deciduous tree with soft white wood and gummy bank that usually grows up to 9-m height. The feathery follage of tripinnate leaves originates from the main axis which may have a length of 30-75 cm. 12 in India, the leaves and pulp form an integral part of the food for many conturies. All the parts of M. oleiferg like leaves, pods, and pulps of drumstick, bark and root are traditionally used for various diseases, but leaves are most commonly used and thus, a Tamil proverb mention the great value of the tree as "Murungatvol nattavan verungai/rodu povan" which means a man who cultivates and eats all parts of the tree will become strong physically and never uses a walking stick in his gertatric period.

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Source of support: No

Conflict of Interest: None

The MOL is a significant source for protein, amino acids, calcium, potassium, iron, zinc, as well as vitamins like A, B, C, and E. It also has polyphenoi, phenolic acids, flavonoids, alkaloids, a simple sugar, tannins, vitamins, rhamnose, carotenoids, phytates, isothiocyanates, saponins, oxalates, and triterpenoid glucosinolates. If Many investigations explored that the micronutrients of MOL have anti-inflammatory, antidiabetic, arithypertensive, antieplieptic, and antitumor properties. It shows high antioxidant property against free radicals induced tissue damage because it contains phenolic compounds. It literature explored the contents of MOL from various countries and thus, the present study aims to evaluate the existence

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A Histological Evaluation on The Protective Effect of Ethanolic Extract of Moringa Leaves on 4G-Cell Phone-

Irradiated Testes of Wistar Rats SUDHA RAMALINGAM¹/ Dr. X. CHANDRA PHILIP¹/ Dr. K.V.P. SURIYAKUMARI³

Tutor, Department of Anatomy, Sri Manakula Vinayagar Medical College and Hospital, Puducherry, India. Professor, Department of Anatomy, Mahatma Gandhi Medical College and Research Institute, Puducherry, India. Professor, Department of Anatomy, Sri Manakula Vinayagar Medical College and Hospital, Puducherry, India.

ABSTRACT

Introduction

Infertility is the growing problem in modern world. Fifty percent of infertility cases are paid for by the malefactor. Scientific researches revolve around the use of cell phones and infertility. Few studies have explored the effects of 2G, 3G and 4G-cell phone radiation on opermatogenesis and some other studies offer conflicting views. The aim of this research was to study the impact of electromagnetic radiation (EMR) on the testis of Wistar rats over a span of two months from a 4G mobile phone and to assess the potential radio-ameliorative efficiency of leaves of Moringa oleifera (MOL).

Material: and Method:

The male Wistar rats were divided into five groups. Control group (n=3) without mobile phone; Sham group (n=3) with mobile phone in switched-off mode; MOL-2 group (n=6) obtained oral 200 mg of ethanol extract of MOL Ag body weight for two months; R2 group (n=6) subjected to 4G-EMR for two months for 96 minutes day; R2+MOL-2 (n=6) group exposed to EMR and treated concurrently with MOL extract for two months. After the experimental period, rats were sacrificed and testes were removed to analyze the morphometry and histological alterations.

Results 4G mobile phone-EMR caused a significant reduction in the length and thickness of the testis in the R2 group as compared to control, sham and MOL-2 groups. The ethanolic extract of MOL could not retrieve the variables to normal in the R2+MOL-2 group. But the extract retained the histo-morphology of the testes from the effects of +G- EMR.

Conclusion 4G-LTE-radiation can influence spermatogenesis to some degree by adversely affecting the the histological aspect of the testes. Oral administration of ethanol extract of MOL will preserve the properties of testes from cell phones via the antioxidant properties of its phytochemicals.

Reywords: 4G-EMR; Moringa Leaves; Morphometry; Testis; Histology; Antioxidants.

Introduction

Male infertility has become a great concern nowadays. It is often connected with multiple em ironmental and occupational exposures.[1] Mobile phone technology reached a maximum peak of growth in the last decade. This technology is used by more than two-thirds of the global population for communication. The invention of the firstgeneration of the cell phone known as analog phone works at 450-900 MHz, the second-generation (digital phone) work at 850-1900 MHz [Global System for Mobile Communications, GSM], and the third-generation phone works at around 2000 MHz [2] The prolonged use of a mobile phone affects the biological system of the body through radio frequency induced-electromagnetic radiation (RF-EMR) as non-ionizing radiation.[3,2] The production of RF-EMR. depends on the frequency of the mobile phone handled. The greater the frequency, the higher the probability of more radiant energy being absorbed into the imman body.[2] When using a hands-free tool such as Bluetooth, most men hold their mobile phones in a trouser pocket (or attached to the straps on their waist). This equipment exposes the testes to mobile phone radiation with a higher power density than a mobile phone in a trouser pocket in the Standby mode Desai. Such RF-EMR can negatively influence the reproductive capacity of humans and animals. Various researchers documented the reproductive effects of RF-EMR as decreased primary spermatocyte and sperm count and abnormal sperm morphology. [3,2]

RF- EMR may disturb the bodily function by producing hyperthermia as thermal effects or through nonthermal effects like discrepting the plasma membrane of the cell; generating oxidative stress within the cell by increasing the output of reactive oxygen species (ROS) or by decreasing the antioxidant enzyme activity; causing DNA damage.[4]

Literature provided shreds of evidence that 2G and 3G mobile phone-radiations could cause detrimental effects on the male reproductive system.

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Hepatoprotective potential of Indigofera tirunelvelica Sanjappa: in vitro and in vivo studies on CCl, induced wistar albino rats

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ABSTRACT

The hep-atoprotective efficiency of Indigofera tirunelvelica Sanjappa whole plant against CO, induced hepatotoxicity was examined. Rat hepatocyte mono layer culture and wistar albino rats were exercised as in vitro and in vivo screening models of protective agent for liver. In in vitro analyses, the whole plant ethanolic extract of Indigofera tirunelvelica Sanjappa were inspected. Slymarin was chosen as a standard treatement drug. In vitro, free radical scavenging property was also evaluated. In animal studies, hepatotoxicity was produced in Wistar albino rats by dispensing CO. The degree of hepatotoxicity was examined by determining the ranges of serum enzyme. The an Boxid and planameters such as superoxide dismutase, catalase, reduced glutathione, and malondialdehyde of the hepatocytes were also evaluated. In in vitro studies, ethan ol extract of I. tirunalvalica whole plant was identified to be the most active than other assessed extracts. Besides, whole plant ethanol extract of L tirund velice was noticed to be rich in phenolic and flavon olds. It exhibited expressive free radical scavenging property versus diphenylpicryl hydraxyl (DPPH) and superoxide ion radicals. In the animals studies, whole plant ethanolic extract of I. tirunchelias at a ranges of doses (100, 200 and 400 mg/kg body weight) revealed considerable amount of protection against CCI, induced hepatotoxicity as evident by the protection of CCI, induced changes blochemical parameters. The results of the present study suggested that the significant hepatoprotective property of whole plant ethanol extract of L tirunelvelice against CCI, induced hepatotexicity and intimates its use as a potential medicinal drug for liver diseases.

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INTRODUCTION

Oxidative stress has been linked in the acute and chronic development of diseases in liver injury in a variety of pathophysiological conditions such as alcoholic liver injury intrahepatic cholestasis, hepato toxin exposure, viral liver disease and also liver is chemia (Stehbens, 2003); (Jaeschke, 2003); (Serafini et al., 1998). Excessive synthesis of reactive oxygen species (ROS) and reactive nitrogen species (RNS), together with a substantial decline of antioxidant defence in these diseased conditions, hinders numerous cell performances throughout the

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Suicide attempt among adolescent in Tamil Nadu: A case-control study

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Abstract

Introduction: Suicide is a complex social issue and a serious global health problem. Its incidence among adolescents is increasing. Understanding of risk factors helps early detection and prompt treatment of high-risk youngsters.

Materials and Methods: It was a hospital-based case-control study carried out among 60 adolescent suicide attempters and 60 of their normal counterparts for the period of one year. Pretested structured questionnaire was used to collect information. Ethical principles were followed throughout the study. SPSS version 24 was used to do the analysis. Odd's ratio (OR) and its 95% confidence interval (CI) were calculated as a measure of the strength of association between risk factors and suicide attempts.

Results: Among the study participants, 70% were in the age group of 16 – 18 years and 45% were males. The identified risk factors for suicide attempt were, presence of psychiatric illness (OR-7.8, 95% CI: 3.3-19), substance abuse among family members (OR-4.3, 95% CI: 2-9.3), family history of attempted suicide (OR-7.2, 95% CI: 1.5-3.3), family history of ompleted suicide (OR-3.6, 95% CI: 1.2-1.1) and residence at rural areas (OR-2.8, 95% CI: 1.2 – 6.3). Suicide intent score was significantly correlated with various standard scoring tools for stress and depression among cases.

Conclusion: The established risk factors should be considered in creating an effective intervention program and strategies with intersectoral collaboration and coordination to prevent suicide among high-risk adolescents.

Keywords: Adolescent, Attempted suicide, Case-control study, Risk factors.

Introduction

Stricide is a complex social issue and a serious public health problem. Stricidal behavior is a spectrum that ranges from suicidal ideation at one end to completed stricide at the other end. World Health Organization reports that every year nearly 800,000 deaths occur due to stricide worldwide. Stricide is the second leading cause of death among youngsters (15 to 29 years old) globally and its incidence rate is increasing. More than 78% of global suicides occur in low and middle-income countries. In India, over one labb lives are lost every year due to stricide and in the last three decades, the stricide rate was found to be increased by 43%. The National Crime Record Bureau, report reveals that South Indian states has the highest stricide rate among India and Tamil Nadu stands in third position with 18,6100,000 population.

As there is no effective protocol to predict suicide among adolescents in routine clinical practice, improving the recognition and understanding of clinical, psychological, sociological, and biological factors could help in the detection of high-risk youngsters so as to assist in treatment options. Therefore the present study was designed with the objectives to assess the association of childhood adversity, demographic factors and psychiatric co-morbidities with adolescent suicide attempt. We also tried to identify the correlation between suicide intent score with stressful life events, hopelesceness and depressive scores among suicide attempters.

Materials and Methods

Study setting and design

Our study was an age and gender-matched case-control study that was carried out in a tertiary care teaching hospital situated in Cuddalore district of Tamil Nadu. It is a 1000 bedded teaching hospital. The average outpatient and impatient load of Psychiatry department per day is 80 and 20 respectively. The department admits and provides care to nearly 150 attempted suicide patients every year.

Study population

Cases were adolescents belonged to both genders and in the age group of 13 to 18 years, admitted with the history of attempted suicide in the emergency department and were referred to the Department of Psychiatry for providing care and support thiring the year 2012. Subjects with the stable physical condition who could undergo detailed assessment were included. Those who were in the state of discrientation and confusion which interfered with the administration of rating scale to them and those without a reliable informant were excluded. Controls were the adolescents who accompanied those patients admitted to any other departments of the hospital with complaints other than the psychiatric disorder. They were selected in such a way their age and gender were matched with the selected cases.

Sampling and sample size

Sample size was calculated to be 60 cases and 60 controls using OpenEpi software vertion 3.0, taking the exposure of cases to worrying issues in family as 65% and exposure of controls to same risk factor as 35.3% and odds ratio of 3.4.

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Determinants of Categories of TB Retreatment with Special Reference to Sources of Primary Anti-TB Treatment

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Abstract

Introduction Retreatment (previously treated) cases are the tuberoulosis (TB) patients who have been treated previously with anti-TB drugs for at least a month and who have now been registered for category II anti-TB therapy. Retreatment cases arise due to inadequate and improper treatment of the new TB cases.

Objective The aim of the study is to assess the information regarding sources of previous TB drug exposure and treatment practices leading to retreatment cases (category II) and determinants leading to retreatment.

Material and Methods It was a community-based cross-sectional study of patients registered as retreatment TB cases under revised national TB control program (RNTCP) in the TB unit of Puducherry between October 2013 and September 2014. The study was held between October 2013 and October 2015. Initially the quantitative data were collected and followed by qualitative data. Data were collected by interviewing the patients using a predesigned questionnaire. Data were entered and analyzed by using Epi Info (Version 3.4.3) software package.

Results: Out of the 193 study participants, relapse cases were the most common 50.8%, followed by treatment after default cases 23.8%, failure cases 11.9%, and retreatment others 13.5%. There is a significant association between the retreatment categories such as failure, TAD (treatment after default), retreatment others, and ever usage of tobacco (p < 0.05). There is also a significant association between the retreatment categories such as TAD, retreatment others, and ever usage of alcohol (p < 0.05). The sources of previous antitubercular therapy for 90.16% retreatment cases were from government health care facilities under RNTCP, whereas for 9.84% retreatment cases the sources of previous antitubercular treatment were private health care facilities. There is a significant association between public health care facility where patients were previously treated for TB and relapse (p = 0.001) and private health care facility where patients were previously treated for TB and relapse (p = 0.001) and private health care facility where patients were previously treated for TB and TAD (p = 0.008).

Conclusion As 90% of the patients have utilized the government health services for treatment, it shows the effective functioning of RNTCP-STF (state task force-revised national TB control program) mechanism in Puducherry.

Keywords

- previously treated
- retreatment
- sources of previous treatment
- tuberculosis

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CORRECTION

Correction to: Role of Total Thyroidectomy in Painful (Symptomatic) Hashimoto's Thyroiditis: Descriptive Study

Atul Mukul Bage1 · Pradheep Kalatharan1

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The article [Role of Total Thyroidectomy in Painful (Symptomatic) Hashimoto's Thyroiditis: Descriptive Study], written by [Atul Mukul Bage and Pradheep Kalatharan], was originally published online on [07 September 2020] with Open Access under a [This article is licensed under a Creative Commons Attribution 4.0 International License, which permits use, sharing, adaptation, distribution and reproduction in any medium or format, as long as you give appropriate credit to the original author(s) and the source, provide a link to the Creative Commons licence, and indicate if changes were made. The images or other third party material in this article are included in the article's Creative Commons licence, unless indicated otherwise in a credit line to the material. If

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A Rare Case of Unilateral Penile Fracture with Urethral Rupture involving Distal Shaft of Penis

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ABSTRACT

Penile fractures are rare usually occurring after sexual intercourse involving mid or proximal shaft of penis. Case of cottal trauma in 25 year old male resulting in penile fracture involving unilateral corpus cavernosum of distal shaft of penis with adjacent wethral injury has been described

Key words: corpus cavernous, urethral injury, penile fracture

CASE REPORT

A 25 year old man presented to the urology clinic with history of sudden onset of pain near the tip of penis with bleeding at the external urethral meatus along with swelling of shaft of penis after sexual intercourse 6 hours before reaching the hospital. On examination, there was blackish discolouration of the distal shaft of penis on the ventral aspect with swelling of prepuce and blood at the tip of urethral meatus. Emergency surgical exploration was done by sub coronal circumferential incision and degloving of penis. There was rupture of ventral corpora cavernosa in the distal part on left side with adjacent ventral urethral injury (Fig 1, Fig 2). Both were oriented transversely. Right corpora cavernosa was normal. Urethra was repaired over 14 fr. Foley's catheter using 4:0 vicryl simple interrupted sutures. Corporal tear was also sutured with 4.0 vicryl by simple interrupted technique. Catheter was removed on 14th post operative day. Patient

voided well immediately. On follow-up 2 months after surgery he had normal erections and had good stream of urine.



Fig. Organized hematoma over the left distal corporal rupture and adjacent urethral respitate just proximal to corona.



Fig2: Fracture of left datal corpora cavernosa with adjacent seventiral injury after placing Foley's catheter.

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Case Report

Breast Carcinoma in a 62 year old male: A case report

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Abstract

Breast cancer in men is a rare entity. It represents about 0.2% of all cancers, and about 1% of all breast cancers. Presentation is usually a lump or nipple inversion, but is often late, with more than 40% of individuals having stage III or IV disease. Risk factors for MBC are poorly understood and include working in high-ambient temperatures and exhaust frame exposure. MBC is associated with hypercestrogenic states found in liver disease, Klinefelter's syndrome, gonadal dysfunction or obesity. We describe a case of breast cancer in a 62 year old man who presented with advanced disease.

Key words

Breast carcinoma, Male, Clinical presentation, Diagnostic and therapeutic modalities.

Introduction

Male breast cancer is a rare disease which accounts for about 1% of all breast cancers. Most of studies in breast cancer have been conducted in women and few large studies have been done in men due to the low prevalence [1]. The risk factors for male breast cancer include working at high temperatures and exposure to exhaust fumes. It has an association with hyperestogenic states like liver disease, Klinefelters syndrome, gonadal dysfunction etc. Presentation is usually a lump or nipple inversion, but is often late, with

more than 40% of individuals having stage III or IV disease. Most tumors are ductal and 10% are ductal carcinoma in situ. Surgery is usually mastectomy with axillary clearance or sentinel node biopsy. Indications for radiotherapy, by stage, are similar to female breast cancer [2]. Because 90% of tumors are costrogen-receptor-positive, tamoxifen is standard adjuvant therapy, but some individuals could also benefit from chemotherapy. Hormonal therapy is the main treatment for metastatic disease, but chemotherapy can also provide palliation. The age frequency distribution in women with breast

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Original Research Article

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Comparison of ultrasound and serum amylase in the diagnosis of acute pancreatitis

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ABSTRACT

Background: Acute pancreatitis is an inflammatory disease of the pancreas. Though, severe acute pancreatitis constitutes 15-20% of all cases of pancreatitis, in recent times, mortality rate of severe acute pancreatitis has reduced from 30-80% to 15-20%. Ultrasound is the first imaging modality in most centres for the preliminary screening of an acute abdomen.

Methods: In this prospective study between October 2017 to March 2019, 113 patients with clinical signs and symptoms of acute patiereatitis were screened with an ultrasonogram of the abdomen and serum anylase in the emergency room. Patients also underwent a complete physical exam.

Results: In our study 38.9% of patients were in the age group of 45-55 years, 25% in the 35-45 age group and 20.4% in the 55 to 70 age group. 92.9% of the patients were men. 89.4% of the participants had a history of alcoholism. Only 37.2% of the participants who were clinically positive for acute pancreatitis, also showed USG findings for acute pancreatitis while 65% of the clinically positive patients showed serum any lase level positive for acute pancreatitis.

Conclusions: Ultrasonogram though cheap and easily available is not ideal for the diagnosis of acute pancrentitis. As shown in the study serum anylase is able to detect nearly twice as many cases of pancrentitis compared to ultrasonogram. The sensitivity and specificity of ultrasonography to detect acute pancrentitis is too low to use as a diagnostic test but it is a valuable tool in the evaluation of an acute abdomen.

Keywords: Acute pancreatitis, Ultrasound, Serum amylase, Diagnostic accuracy

INTRODUCTION

Acute pancreatitis is an inflammatory disease of the pancreas that also involves surrounding tissues. It has a sudden onset and short duration and it is characterized by self-digestion of the pancreatic parenchyma, necrotizing vasculitis and interstitial fat necrosis due to inappeopriate intracellular activation of proteolytic pancreatic enzymes. Symptoms of acute pancreatitis includes abdominal pain localized in the epigastrium in majority of the cases and radiating to the back in half of the cases often accompanied with features of acute abdomen. Acute

pancreatitis may cause multi organ failure and occasional death 12

The severity of acute pancreatitis keeps on increasing, in acute pancreatitis the average mortality rate approaches 2-10%. Most of the cases are not severe and conservative treatment leads to a rapid recovery in the patients.

Acute pancreatitis typically shows increase in serum and urine levels of anylase and lipuse. Elevated anylase is not specific to acute pancreatitis and may be caused by bowel obstruction, infarction, cholecustitis, or perforated ulcer. The serum level of the alartic aninotransferase

International Surgery Journal | December 2020 | Vol 7 | James 12 Page 4030 Dr. KANE. R N

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Original Research Article

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Barriers to exclusive breast feeding, the missing links: a cross sectional study from Puducherry, India

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ABSTRACT

Background: Breast milk, the first natural food for a new-born, provides all the energy and essential nutrients an infant requires for the first 6 months of life. The NHFS 4 survey shows only 45.5% of children are exclusively breastfed (EBF) in Puducherry. This study aims at assessing the socio-demographic characteristics associated with exclusive breastfeeding in a tertiary hospital in Puducherry and identify the barriers in the promotion of exclusive becastfeeding

Methods: Community-based cross-sectional study at a tertiary hospital in Puducherry. Sample size: 115 mothers of 6 months to 2-year-old children, been term gestation with a birth weight of >2.5 kg, attending the Paediatric OPD Questionnaire-based study comprising of socio-demographic and parameters pertaining to exclusive breast-feeding. Results: Only 44.3% of the mothers have exclusively becastled in the first 6 months. Shorter duration of spacing between births and caesarean section had significant negative association with exclusive breast-feeding. Most of the mothers received postnatal counselling on breast-feeding (94%) of which 58% were by health care personnel. Despite that, only a sixth (19%) of them were well versed with proper breastfeeding techniques. Poor secretion (45.3%), sore/inverted nipple (23.5%) amounted to the most common of the barriers. Among working mothers, 42.9% attributed their jobs as the cause for early wearing

Conclusions: The prevalence of exclusive breastfeeding is still low even among a literate study group. There were no significant association with socio-demographic factors found, but lacunae were identified. A more objective postnatal courselling to mothers involving their caregivers may improve the current scenario.

Keywords: Barriers, Exclusive breastfeeding, Puducherry, Socio-demographic factors

INTRODUCTION

Breast milk, the first natural food for a new-born, provides all the energy and essential nutrients an infant requires for the first six months of life, half of the nutritive requirement for the next six months and thereon one-third of the requirement till two years of age, responsible for the infant's proper physiological growth and development 11 Exclusive Breastfeeding (EBF)

implies that nothing else is to be given to the baby except breast milk during the first six months of life. The WHO recommends exclusive breastfeeding for all new-born during the first six months of life.4

Breast-feeding, besides providing nutrition, energy, adequate sensory and cognitive development also protects the child from various infections and chronic diseases. like obesity, type1/2 diabetes, leukemia and Sudden

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Case Report

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Wilson disease: early screening for better living

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ABSTRACT

Autosomal recessive diseases are more common among consanguineous marriages noted particularly in southern parts of India. There is a gradual increase in the genome wide homogeneous with the increasing levels of consanguinity. Here we are reporting a case series of such an autosomal recessive condition, namely Wilson Disease (WD), where three children were affected with the disease, who were born out of consanguineous marriages. The first case presented with neuropsychiatric manifestations, the second case and third cases were diagnosed through screening of family members leading to earlier identification of the disease. In these cases consanguinity has been emphasised as the major predisposing factor leading to their manifestations. This case series highlights the importance of screening the other family members of the index case. Conditions such as Wilson disease have an excellent prognosis if pharmacotherapy is initiated appropriately.

Keywords: Consunguinity, Screening, Wilson disease

INTRODUCTION

Wilson Disease (WD), also known as hepatolenticular degeneration is an autosomal recessive disorder caused by the mutations in ATP7B gene which leads to impaired cellular copper transport resulting in excessive accumulation of copper in several organs, most notably the liver, brain and cornea. Clinical presentation of WD ranges from silent carrier to liver failure and irreversible brain damage, leading to death.

CASE REPORT

Case I

The 11-year-old developmentally normal female child, born to a third-degree consunguineous couple brought with history of gait disturbances for 6 months in the form of swaying on both sides which was gradually progressive in nature. Child also had history of drooling of saliva, shurring of speech and decreased scholastic performance. Her hand writing deteriorated over the past few months and she was noticed to have emotional lability by her parents. There is no history of involuntary movements, secures, weakness of limbs and paresthesias. No history suggestive of cranial nerve involvement or visual distarbances. She had a past history of junidice on two occasions for which narive treatment was taken. She never had any history of hematemesis. On examination, child was alert, conscious and oriented. Except for dysarthria, rest of the CNS examination was normal. Child had hepatosplenomegaly on abdominal examination.

Slit lamp examination showed bilateral KF rings. USG abdomen showed coarse liver (with surface irregularities

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PRACTICE OF DOCUMENTATION AT CASUALTY OF TERTIARY CARE HOSPITAL - AN INTERVENTIONAL STUDY

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Abstract

A medical record plays a major role for the patient and health care sector in terms of treatment and making policies on certain diseases. In any suit of negligence, this medical record will help the doctors to defend them. Many a times the complete and accurate documentation only have helped the medical fraternities from getting entangled in various consumer cases made by the patient against the doctors. Even though we have seen so many negligence cases on doctors, documentations are still incomplete in any medical record. There are studies shown that the average time spent by a doctor on a medical record is very less and the scenario is much worse when it comes to critical areas of the hospitals like casualty where the time is very precious in treating the patient and not much of importance is given for documentation. So to identify the current practice of documentation of medical records, this study was carried out to assess the documentation practice of the admission case sheets in the casualty of SMVMCH, Paducherry, An intervention was done to improve the completeness of documentation in the casualty and post-intervention analysis was also done. The results of the study showed that the percentage of documentation out of the 34 variables documented in the admission case sheets found to have significant deficiencies. But following the intervention on improving the documentation there has be a significant decrease of the deficiencies in the documentation practice on all those 34 variables.

Legwords: Medical record, Documentation, Casualty and Admission case sheet.

Introduction

In a tertiary care hospital, medical records serve as a tool to provide better clinical care and to act as a means of communication between care providers. Completed ocumentation of this medical record is very important, because the deficiencies in this documentation, have made the doctor's defenseless in medical negligence cases filed against them in the court.2 Casualty being the first place of contact, a properly documented medical record is needed proper diagnosis and treatment.3 Thus in view of a good patient care and to prevent a health care provider from negligence suits, a standardized medical record documentation is very essential. This needs to stress on the "Golden Rule" in documentation i.e. "If it isn't written down, you didn't do it."4 Following the Honourable Supreme Court judgement in the year 1995, stating that "doctors also come under the perview of the Consumer Protection Act, 1986 which makes the medical faternity liable under the consumer forum for deficiencies in the quality care and treatment". To safeguard the physicians from these forums, the only defensive evidence was proper documentation which is the need of the hour. So our study helps in identifying various deficiencies in the documentation of medical records mainly the admission case sheet in the capualty.

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Practices of Documentating the Pre-Operative Informed Consent in Obstetrics and Gynaecology in a Tertiary Care Hospital – An Interventional Study

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Abstract

An informed consent form plays a major role both in giving the needed information for the patient and as a legal tool for the doctor to carry out various diagnostic and therapeutic procedures. This paper was an interventional study, conducted in Department of Forensic Medicine, Sri Manakula Vinayagar Medical College and Hospital, Madagadipet, Puducherry to audit and improve the current practices of using informed consent forms by the faculties of Department of Obstetrics and Gynecology. The practice of documenting the informed consent forms obtained during the major surgeries of the concerned department was analyzed using a validated check-list. Deficiencies were identified in the documentation and an intervention was carried out to stress on the importance of documentation in the consent forms and the post-interventional consent forms were analyzed against the same validated check-list. The results of both the pre- and post-intervention data on the documentation of consent form were analyzed and compared, which showed a significant improvement in the documentation of the informed consent forms by the faculties of the Obstetrics and Gynecology Department. This study result will emphasis the role of intervention mode used to enhance the documentation of informed consent forms.

Keywords: Informed consent form; Deficiencies; Documentation; Intervention.

Introduction

"Consent connotes agreement, compliance or permission given voluntarily without compulsion.\(^1\) Indian contracts act, section 13 states that "two or more person are said to consent when they agree upon the same thing in the same sense" and section 14 states that "consent is said to be free when it is not caused by coercion, undue influence, fraud, misrepresentation and mistake".\(^2\) Initially, the information given in informed consent forms are complex and difficult for the patient

to understand. In the era of 21st century, patients are becoming more aware about this consent form, as the information is available for them at fingerprints through the wide spread access of internet and media.3 Informed consent in medical practice is based on the decision between the doctor and the patient, where the doctor has to explain and the patient must understand about the details of consent form in the same sense. This can be done by actively involving the patient in decision making process towards the surgery. 4.5 Failing to do the above process of obtaining informed consent form, the doctor is said to commit an assault and will be liable for the damages caused to the patient as per section 351 IPC.6 Though there are so much of strict regulations and increasing negligence cases under the consumer protection act because of the impreper method of obtaining the informed consent form, still most of

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Clinical Nephrology and Renal Care

ORIGINAL RESEARCH

Renal Equations Using Cystatin C and Creatinine in Correlation to Lipids in Chronic Kidney Disease - A Cross-Sectional Study

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Alm: To study and compare the association between estimated GFR with cystatin-C and serum creatnine and the lipid profile in chronic kidney disease.

Baokground: Chronic kidney disease (CKD) is frequently complicated by the coexistence of cardiovascular (CV) events, making it essential to identify CV risk in CKD. Serum cystatin-C is an upcoming renal biomarker, which is used to measure estimated glomerular filtration rate (eGFR) by the CKD-EPI formula.

Methods: This cross-sectional study, comprising of 120 CKD patients, attempted to determine, which of the two equations for estimating GFR, either by serum cystatin-C or by serum creatinine, is better related with lipid profile which is widely portrayed as a cardiovascular risk factor. The parameters evaluated included lipid profile, serum creatinine and serum cystatin-C among others. Stagling was done by both the equations (MDRID equation by creatinine and CKD-EPI equation by cystatin-C) and compared, and both the eGFRs were correlated with the lipid profile.

Requits: eGFR estimation by cystatin-C was found to relate inversely and significantly with lipid profile which included-TC, TG, LDL, VLDL (r = -0.19, -0.23, -0.18, -0.23; p < 0.05 respectively) and lipid ratios TGHDL, LDLHDL (r = -0.26, -0.24; p < 0.01 respectively). Lipid profile except HDL was found to correlate negatively and significantly with eGFR estimation by serum cystatin-C (p < 0.05). Lipid ratios-TC/HDL and LDLHDL were also found to correlate inversely and significantly (p < 0.01). However, eGFR using serum creatinine falled to offer a similar significant relation.

Conclusion: Serum cystatin-C based eGFR was found to be better correlated with the lipid profile, when compared with eGFR estimation using serum creatinine. Hence, the correlation between cystatin-C based eGFR and lipids might indicate that this eGFR methodology may be a better marker of cardiovascular risk as lipids are a well known traditional risk factor for cardiovascular disease.

Keywords

Cystatin C, Renal insufficiency, Estimated glomerular filtration rate, MDRD equation, CKD-EPI equation, Cardio-renal disease, Cardiovascular risk, Lipid profile

Introduction

Chronic kidney disease (CKD) is a world-wide health problem whose burden continues to increase. CKD encompasses a spectrum of different pathophysiologic processes, associated with abnormal kidney function and a progressive decline in glomerular filtration rate (GFR). The National Kidney Foundation had provided a classification for chronic kidney diseases, which has since evolved through time. This staging of chronic kidney disease, as delineated by the Kidney Dialysis Outcomes Quality Initiative (KDOQI), depends on the estimated glomerular filtration rate (eGFR) [1].

CKD is defined using eGFR as the presence of evidence of kidney damage with an abnormal GFR for at least 3 months or by a GFR below '60 ml/min/1.73 m², body surface area [2]. Serum creatinine is the most commonly used marker for eGFR using the Cockcroft-Gault formula or the MDRD (Modification of Diet in Renal Disease) [3]. However, creatinine is an unstable entity and has wide variance. Even though it is still most



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Case Report

BILATERAL AXILLARY ACCESSORY BREAST TISSUE IN A MALE-A CASE REPORT

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ABSTRACT

Accessory breast tissue (ABT) is more frequent in females compared to male counterparts, commonest presentation being unilateral axillary mass. Presence of bilateral accessory breast tissue in male is a rare occurrence and it is noteworthy due to its need for close follow-ups. We report a case of bilateral axillary accessory breast in a 25 year old male with no other complaints. The importance of fine needle aspirate as diagnostic tool in an unsuspected case of ectopic breast tissue without nipple aerola is emphasised here.

Keywords: Accessory Breast Tissue, Axilla, Fine Needle Aspiration

INTRODUCTION

Accessory breast tissue (ABT) is the presence of a nipple, areola or glandular tissue in addition to the normal pair of breasts (Guray and Sahin, 2006). It is metonym with polymastia, supernumerary or ectopic breast tissue. ABT is more frequently seen along the milk line, axilla being the commonest location. However, an anatomic location outside the milk line should not preclude a diagnosis of ectopic breast tissue, as there are many well-documented, unusual sites of such tissue, including the knee, lateral thigh, buttock, face, ear, and neck (Guray, Sahin, 2006). It may occur unilaterally or bilaterally. It incidence in female (0.4-6%) seems to outnumber its male counterpart (1-3%) (Sahu et al., 2007). There is a drift in the occurence of ABT among the Asian population especially Japanese than Caucasian (Neki et al., 2014). The components of ABT may include nipple, areola, and/ or glandular tissue. When nipple-areolar complex is absent, the presence of ABT is difficult to identify. Its development is hormone dependent, similar to normal breast tissue. The functionality of ABT determines its response to physiological hormonal stimulus. Ectopic breast tissue usually arises sporadically; however, a hereditary predisposition has also been reported (Nirmala et al., 2010).

CASE

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A 25-year-old male presented to surgery out patient department of GTB hospital with history of bilateral axillary swellings for past 5 months. Swelling was gradually increasing in size and was associated with mild pain. A clinical diagnosis of bilateral axillary lymphadenopathy was offered. Examination of both axillary regions revealed a mildly tender, soft and mobile swelling measuring 1.5 X 1.5cms and 2 X 2cms on left and right sides respectively. The swelling was placed in the subcutaneous plane. Fine needle aspiration was attempted from both sides using 23 gauge needle attached to 10 ml syringe. FNA from left side yielded fluid mixed aspirate with few fragments of tissue, while from right side it was predominantly blood mixed aspirate. Two air dried May Grunwald Giemsa (MGG) stained and 1 alcohol fixed papaniculou stained smears were made from both sides.

Fine needle aspirate from both left and right axillary swellings were cellular with uniform monolayered sheets of benign ductal epithelial cells along with few darkly staining myoepithelial cells in a fluid background (Fig 1, 2). Cytomorphological features were consistent with benign breast tissue in accessory location. Since the swelling was recent in onset (past two months only) gynecomastia was suspected and the patient was reexamined. However his bilateral breasts were not enlarged. They were normal looking with no other complaints. To find out cause of gynecomastia in accessory breast a detailed history and clinical examination was done. He was not taking any drugs that could induce gynecomastia. The patient

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"Identification of modifiable risk factors in young type 2 diabetes mellitus - a rural hospital based study"

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Abstract:

Background:

we aimed to study the sociodemographic profile of young type 2 diabetes mellitus patients of age between 20 to 32 years and to identify the modifiable risk factors contributing to young type 2 diabetes mellitus patients.

Methoda

It was a cross sectional study done in a tertiary care centre in rural puducherry, India for a period of six months from july 2019 to December 2019. Socio demographic data, family history, level of physical activity (using International physical activity questionnaire IPAQ), addictions were collected using a structured questionnaire. Details of anthropometry. blood pressure and glycemic status were collected with help of appropriate instruments. Data were analysed using SPSS version 21.

Repule

A total of 22 type 2 diabetes mellitus patients belonging to age group between 24 to 31 years were included. Higher proportion of patients followed a sedentary lifestyle or no physical activities i.e., 17 (77.3%). Mean Body mass index (BMI) of the study participants were 25.72 ± 2.29. Of which 7 (31.8%) patients were belonging to overweight BMI category and 13 (59.1%) patients to obese BMI category. Mean systolic blood pressure was 112.5 ± 7.2 mmHg. Association between physical activities and body mass index was statistically significant (P value 0.006). All patients had multiple modifiable risk factors.

Conclusion:

It was observed that multiple modifiable risk factors occurred in young diabetic patients. Of which physical inactivity and obesity played a major role. Hence aggressive intervention strategies (primodial and primary prevention) are required at community levels to control the diabetes epidemic in rural India particularly among young patients.

Date of Acceptance: 23-11-2020 Date of Submission: 09-11-2020

I Introduction

India has been designated as "diabetes capital" of the world, and 10-16% of urban population and 5-8% of rural population in India alone are affected by diabetes mellitus. The causation of diabetes mellitus involves multiple factors containing both non-modifiable factors like age, genetic defects, family history and modifiable factors like diet, obesity, sedentary lifestyle, socioeconomic status, stress, alcohol, viral infections etc.

Type 2 diabetes mellitus, earlier considered a disorder of middle age or elderly, is increasingly being reported among young adults and adolescence. Diabetes mellitus screening for children and adolescents is not recommended and hence adequate data and estimated young population affected by type 2 diabetes mellitus are lacking. The ICMR-INDIAB study also showed that there is a shift of type 2 diabetes mellitus to younger age groups and diabetes are occurring at the ages 25-34 years in India. They have a risk of developing early microvascular and macrovascular complications early affecting their productive years of life

The present study aims to identify the modifiable risk factors in young individuals of this region and if identified early remedial measures can be implemented at community level aggressively, thus preventing or delaying the onset of type of diabetes mellitus.

The data which obtained in this study can be used to do further research in the future

II. Materials and Methods:

This study was a cross sectional study done at Sri ManakulaVinayagar medical college and hospital, which is a tertiary care hospital located in rural Puducherry, for a period of six months from July 3010 ONE.

December 2019. Patients with type 2 diabetes mellitus visiting medical outpatient department were recruited 19E AN.

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Determinants of Obesity among Rural Adults in South India – A Cross Sectional Study

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ABSTRACT

BACKGROUND

Obesity is characterized by abnormal or excessive fet accumulation and is one of the major health concerns affecting young children, adolescents, and adults, the world over. The main predisposing factors for many non-communicable diseases are overweight and obesity which has high mortality than underweight. Hence, we aimed to study the determinants of obesity.

METHODS

A cross-sectional study was undertaken among the representative sample of 590 adults in 50 villages of Villupuram district, Tamilhadu. Data was collected by house-to-house survey. Data collection was done using WHO Step questionnaire step-1 and step-2. Analysis was done using SPSS 24 software package.

RESULTS

The overall prevalence of overweight and obesity was 18.3 % and 33.6 % respectively. Female gender, less physical activity and less consumption of vegetables and fruits were identified as significant risk factors for obesity.

CONCLUSIONS

More than half (52 %) of adults have overweight or obesity, and some of the factors identified as determinants are preventable. Hence, primordial preventive measures should be applied for reducing BMI in early phase of life especially school going children.

KEYWORDS

Community, Determinants, Overweight, Obesity, Rural

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Original Article:

Lost to Follow - Up During Diagnosis (LTFU) of Tuberculosis Patients: A Mixed Method Study on Determinant's and Potential Solutions.

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Mohan R, Garagashy K, Vinay agenosorthy V. Lost to Follow - Up During Diagnosis (LTFU) of Tuberculosis Patients: A Missed Method Study on Determinant's and Potential Solutions. Online J Health Allted Scs. 2020; 19(2):6. Available at URL: https://www.cjhas.org/isoac?4/2020-2-6 html

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Abstract: Background: Loss to follow up of tuberculosis patient during diagnosis is an important harner to achieve elimination of TB by 2025 in India. This study estimated the burden and trend of loss to follow up of TB patient during disensois, explored tabercalous patient's perspective for becoming Loss To Follow Up during diagnostic period (LTFU) and stakeholders' initiatives and suggested solutions for the sense Methods Mixed Method study was used -Quantitative (Record based cohort study) and Qualitative (In - depth interview with LTFU patients on their challenges faced and harriers for not giving 2nd spatters sample and free list with stakeholders). Data were extracted from RNTCP Laboratory Register for the cohort of patients registered between January 2014 and December 2018 in a DMC of tertiary care teaching hospital. Qualitative interviews were carried out using interview guide. Results: Of the total 1678. protive cases, 90 (5.5%) were LTFU. On adjusted analysis distance >75km from motical college (Relative risk 2.3; 95%CI: 1.2-4.3) and year of diagnosis were identified as significant risk factors. In Muraud content analysis showed we categories of challenges faced by LTFU cases samely 1) lack of swareness; 2) addictions; 3) stigms; 4) Employment related barriers and 5) perception on drug side effects. Free listing conducted between staffs of hospital and from stakeholders the main suggested solutions identified were 1) context-based courselling, 2) friendly patient tracking, and 3) proscrive in-service. Conclusion: There was significantly decreasing trend in LTFU patients over the years (in 2014 -6% to 0.5% in 2018). Co-ordinated context-specific pro-active interventions are required to achieve End TB strategy of the netion

Key Words: LTFU, Mixed methods research, Suggested solutions, Stakeholder's perspective

Introduction:
Tuberculosis (TB) has existed for millernia and remains a major global health problem [1] India with the largest number of patients with tuberculosis, rurs the largest TB control program in the world. TB patients who are lost to follow-up before starting therapy are infectious and have high mortality rates and can spread infection to other people in the community. Loss to follow up (LTFU) can occur at multiple stages of care pathway, those includes patient who received a diagnosis of tuberculous on the basis of only one positive quiten smear drop out of care during diagnostic pricess, who fail to provide second sample (lost to follow-up during diagnostic period or diagnostic defaulty[2] and before ministry tuberculous beginners are defined as Pre - beginners loss to follow up, formerly known as initial defeater [2,3] which is a barrier to tuberculous (TB) control in India's Revised National TB Control Programme (RNTCP). People with active TB can infact 10-15 other people through close contact over the course of a year (WHO).[4] LTFU should be one of the primary concerns in the battle against TB. In India, RNTCP's serial report suggests that more than 135,000 (14.6%) smose-positive patients: were lost to follow-up prior to starting on TB treatment (PTLFU) in 2013 [5] World Health Organization (WHO) estimates that India has nearly one milion "mixing" TB patients, these "mixing" patients are either undagnosed or are diagnosed but not reported. We should prioritize finding these patients and linking them to effective treatment 16.7

The Medical College's involvement and contribution in RNTCP through task force mechanism is well appreciated and highly helpful. The unique problem of Fundicherry is that the majority of patients utilizing the services of medical colleges are from the border districts of Tamil Nada. Most of these patients after receiving the results from the laboratory fiel to report to the DOTS centre for referred step and contribute to burden of Initial defeatures. As those patients are from border district the mechanism to track these patients was difficult. Hence, the present study aims to find out the various factors that influences the Loss to Follow Up during Diagnostic period among TB patients under DOTS in RNTCP. Further, help to to take contactive measures to prevent the patient from impadefeating. With this backdrop this study was taken up a

Offiles 2022;19(2):6 Mishao R, Ganapathy E, Vinayagamouthy V. Lost to Follow - Up During Diagnosis (LTFU) of Fabercalous Patients: A Misad Method Study on Determinant's and Potential Solutions

Dr. KAGNE, R.N DEAN SRI MANAKULA WNAYAGAP MEDICAL COLLEGES HOSF KALITHEERTHALKUPPAM, PUDUCHERRY-605107

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Case Report:

Cystic Primary Ovarian Malignant Mixed Mullerian Tumour

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Citation

Jayanthi C, Dehuri P, Ortichar CM. Cystic Primary Ovarian Malignant Mixed Mullerian Tumour. Online J Health Allied Scs. 2020;19(3):11. Available at URL: https://www.ojbac.org/isose/15/2020-3-11.html

Submitted: Jul 20, 2020; Accepted: Nov 20, 2020; Published: Dec 20, 2020

Abstract: Primary carcinosactoms of the overy is a nee, challenging malignency of the female gential tract. Prospersive diagnosis of this terror is seldern made as it intraces optibilist overten turnors. We report a case of 45 years multiparters lady who underwent staging beperotomy to disclose smooth surface left overten cyste mass with intramal solid areas. Histopathologically a hiphanic turnor with malignest optibelist and mean-chymat component was seen. Explicit diagnosis of primary overten carcinosactoms was enablished using meranolastochemical merker study. Primary mixed Multerian turnor of the overy has to be considered in the differential diagnosis of prodominantly cystic overten lesion with minimal solid areas. Regular followers and close monitoring of the patient is required to understand the behavior of this exceptional turnor.

Key Words: Carcinosactoma, Cystic mass, Staging

Introduction:

Primary malignant mixed Mullerian neoplasm of overy increases by known as cartinoacroms in an aggressive transer with damal proposes. This infrequent transer usually involves the uterine corpus but its incidence outside the genital tract has also been reported(1). The accessibility frequency of oversion carcinoacroms is ground 1-3%(2). Risk factors of oversion carcinoacroms (OCS) are obssity, miliparity, estrogen exposure and long term temosifies use. Most of the OCS reported so for is common in the postmenopassal women(3). Histologically they are hiphanic turner with varying proportions of distinct malignant epithelial and stromal component. Majority of OCS are solid turner with varying proportions of cystic space. Herein we report a case of overtee carcinoacroma proporting as a predominantly cystic lesion with miximal solid component.

Case Report

A 45 year old multiparous female presented to the gynecology outpatient department of Sri Verkastowers Medical College and Research Centre with history of recument abdominal pain.

dynamic, weight loss and loss of appetite for the past two weeks. She had three live children with no history of abortion and her last child birth was 20 years back. She had a past history of simple bysteroctomy with right subringo cophoractomy seven yours back for completels of profine blooding per vagina. Histopethologically, uterus was reported to show artierior wall leiomyoma with no other numificant pathology. The patient was symptomics thereafter till she presented here. On exemination a mobile mass was felt through foreix per vaginally. Abdominal and pelvic contrast enhanced computed tomography showed a 12.1x8.1x10.5 cm predominantly cystic lesion with thin septa (3 mm) with few minimally entercing solid components possibly arising from left overy. [Fig 1] An explorative laparotomy was planted and the patient underwest left supplings-copherectomy along with infracolicomentectorry, para-acrise lymph node thesection and personnal weeking with biopsy. Intraspensively a 13x10cm left complex overies cyst with no surface deposits was startified. The cyst was grously atherent to the vaginal vault and blackle

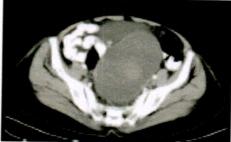


Fig 1: CT scan showing central occupying, single cystic and solid enhancing component tumor with smooth contour. The tumor is closely associated with the left pelvic side wall and abuts the left external fliac vein and artery.

Offices 2020;19(3):11 Llaysophi C, Dahari P, Giridhar CM. Cyttle Primary Ovacian Malignant Mixed Maderian Tursour

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Recurrent Inguinal Hernia - A Study of Risk Factors

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Date of Submission: 08-08-2020 Date of Acceptance 24-08-2020

ABSTRACT: Aim: A recurrent inquinal hernia occurs due to a weakening in the groin muscle, which recurs even after surgical intervention. Inquinal hernias can occur in both men and women, and become more complex when they are recurring. Though with utmost care surgical repair of inquinal hernias are being done, recurrences in inquinal hernia is not so rare. There are multiple factors that do have a role in recurrences of inquinal hernia in this study, we report the cases operated for recurrent inquinal hernia in our center and analyze the patient related risk factors for recurrent inquinal hernia.

Methods: Study of the case records of 90 patients operated between November 2013 and July 2019, who were operated for recurrent inguinal hernia at a tertiary care centre were reviewed retrospectively. The cause for recurrence such as Chronic cough (seen in chronic bronchitis' bronchial asthma), micturation difficulty (seen in stricture urethra' prostatic hypertrophy) chronic constipation and lifting heavy weight (Manual labourers), morbid obesity were enquired and recorded.

Results: All of our patients were males. The mean age was 54.97 years. The mean time to recurrence was 5.5 years. During the previous surgery polypropelene mesh had been used in 12 patients (13.33%), Tissue repair done in 78 cases (86.66%). The cause for recurrence in 43 cases (47.77%) could be detected whereas in 47 cases (52.22%) definite cause could not be detected. Age above 40 years is also a remarkable factor in recurrence of inguinal hemia whereas use of surgical mesh in repair of hemia reduces the recurrence rate.

KEYWORDS: Inguinal hernia, Recurrence, Risk factors, Recurrent inguinal hernia.

I. INTRODUCTION

Hernia occurs mostly in the inguinal region. Hernia repair is the most common surgery done by a general surgeon. Complications of a hernia surgery includes recurrences, bleeding in surgical field, infections, seromas, chronic pain in groin region, pain-related sexual dysfunction, and ejaculatory disorders. In the literature, operation for recurrent hemias has been reported to have a higher risk for possible complications than primary hernia surgery. Although the definite causes of recurrence after surgery still remains unclear, controllable technical risk factors such as surgical methods, anesthesia techniques, mesh-fixation techniques, surgeon experience and hospital volume have been described as the main risk factors for recurrent inguinal hernia. Patient related factors such as chronic cough, micturation difficulties, chronic constipation, continuous weight lifting, obesity also contribute for the recurrence significantly. In addition, uncontrollable patient-related risk factors including sex, hernia anatomy, hernia type and postoperative recovery have been shown to affect the risk of recurrence following inquiral hernia surgery in varying degrees [1]. In the present study, we try to detect the cause of recurrence of inguinal hernia in the cases of recurrent inguinal hernia present in our center and discuss the risk factors for recurrent inguinal hernia. This study mainly focuses on the non-technical risk factors for recurrent inguinal herma.

ISSN: 2582-6018

II. MATERIALS AND METHODS Selection of Patients

This study included a total of 90 patients who were operated due to recurrent inguinal hernia at a Medical college hospital, (tertiary care center) between November 2013 and July 2019. Medical records of all patients were retrospectively analyzed Patients with primary inguinal hernia, patients younger than 14 years of age, and those with abdominal hernia (i.e., umbilical, opigation, or incisional) outside the inguinal region, the patients treated with emergency surgery were excluded from the study. Data including demographic characteristics of the patients, time from previous surgery, localization and type of hernia, and the use of surgical meshes in previous surgery were recorded. In all the records, patients

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Case Report

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Atypical arthritis in a toddler: beware, save the heart

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ABSTRACT

Acute rheumatic fever still poses a dreadful threat to pediatric morbidity and mortality. A 2 year old toddler presented to us with non migratory polyarticular joint pain and swelling. General physical and systemic examination was normal. Local examination revealed swelling and tendemess of multiple small and large joints. Further evaluation fulfilled Modified Jones criteria and she was diagnosed to have acute rheumatic fever. Other close differentials were simultaneously ruled out. Child was started on naproxen because of aspirin toxicity. There was significant response for therapy and complete resolution of joint involvement was noted on follow up. We report this case to emphasize the fact that rheumatic fever might have bizarre clinical presentation and may also affect infants and toddlers deviating the typical age of onset. There is a need for earliest possible initiation of adequate management and follow up to prevent permanent cardiac complications. This warrants high index of suspicion even in uncommon age group.

Keywords: Atypical arthritis, Children, Rheumatic fever

INTRODUCTION

Acute rheumatic fever is an autoimmune, multiorgan inflammatory disease that occurs as a result of Group A β-hemolytic streptococcal pharyngitis. ¹¹ About 0.3 - 3% of those who had GAS infection develop acute rheumatic fever, based on genetic predisposition and virulence of the infecting strain. ² Common primary sites of affliction include heart, joints and central nervous system, of which most important sequel of rheumatic fever is the rheumatic heart disease (RHD) because of its significant residual morbidity and mortaley. ³

Rheumatic fever in children younger than 5 years is extremely uncommon and had widely varied presentations compared to older children. Younger ones were noted to acquire more severe cardins often associated with congestive cardiac failure and those who were followed up had high frequency of recurrence unlike school going children. Miserably its

heterogeneous presentation in preschool children provides a greater difficulty in suspicion leading to under diagnosis and progression to rheumatic heart disease, which is preventable. Here we report a 2 year old female toddler who had initial attack of acute rheumatic fever with isolated atypical articular manifestation.

CASE REPORT

A 2 year old female toddler hailing from Villapuram, Tamil Nadu was hospitalized with complaints of fever on and off for one week, multiple joint pain and swelling for 4 days with difficulty in ambulation for 1 day. Initially she developed left ankle swelling and pain, followed by left knee, with subsequent additive involvement of right ankle and right knee (Figure 1). Eventually involvement of all metacarpophalangeal joints of both hands, all metatar sophalangeal joints of both feet with proximal and distal interphalangeal joints of all four limbs was also noted (Figure 2).

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For the love of color: Plant colors and the dermatologist

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Abstract

Humans have been anointing their skin with natural colorants since antiquity. Before the advent of modern cosmetics, tattoos and hair dyes, the spectacular colors in plants served as a palette for humanity's fescination with color. Skin, hair, nails, teeth and clothing have been altered with botanical colorants for centuries. Understanding the relevance of botanical colorants is an important part of cultural competency. Substitution or adulteration of plant colorants with synthetic colorants has played a role in varied dermatoses (eg. black henna, kumkum, and Holi dermatoses). Safety concerns over synthetic colorants have led to a resurgence of natural colorants. However, some plant colorants have produced adverse reactions. Plant colorants have also played an integral role in medicine. Ingested plant colorants are an indispensable part of our diet, playing crucial roles in the maintenance of health and prevention of disease. Excessive intake of some pigments can after skin color (carotenoderma, lycopenemia, and the golden tan of carthaxanthin). We have relied on the colors of hematoxylin and alizarin red, derived from the logwood tree and madder roots, respectively, to study and diagnose disease in pathology. We briefly review the uses, cultural relevance, and adverse effects of the common botanical colorants on the skin, hair, and mucosa. We also describe their relevance in our diet, and in the diagnosis and describion of dermatological diseases.

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Key words: Bets caratene, cosmetic, lycopene, plant extract, tatioo

Introduction

From palaeolithic times, humans have enriched their appearance with various body paints derived from nature. Plants, minerals and insects have been used to color skin, hair, nails, and clothing for aesthetic, ceremonial, military and religious reasons. The major botanical colorant groups such as chlorophylls, carotenoids, flavonoids, and betalains, along with several other minor colorant groups, provide an endless array of colors that has inspired art and intrigued medicine. We briefly review the decorative, dietary, diagnostic and descriptive aspects of botanical colorants in dermatology.

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Henna

Henna is obtained from the plant Lawsonia thermis [Figure 1], an ancient medicinal shrub. It has been used by Egyptians as seen in the munimies to color hair and nails, and in the Orient to color skin, hair and nails. It was brought to India in the 12th century by the Mughals from Persia. It is traditionally used to color hands and feet (Mehndi) before weddings and other celebrations. Muslims and Orthodox Jews have used it to color natural textiles. Surgeons in India have used it as a pre-operative

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MATHERS.

Pediatr Dermatol. 2020 Nov;37(6):1068-1072. doi: 10.1111/pde.14359. Epub 2020
 Sep 14.

Traditional threads tied on children in india trigger dermatitis and may contain carcinogens.

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BACKGROUND/OBJECTIVES: It is a common Indian custom to tie threads on the hip, neck, or wrist of infants and children.

METHODS/RESULTS: A retrospective registry review was performed for 23 children (age range 5-18 months) with threads tied around the hip/neck/forearm who presented with dermatitis. Analysis of one of the threads revealed the presence of three banned azo dyes and disperse yellow 3 (category 2B possible carcinogens).

CONCLUSION: Thread dermatitis is a unique cultural dermatosis. Dermatitis caused by threads may have multifactorial causes including friction, maceration, and contact dermatitis (allergic and/ or irritant) to the thread contents. Use of banned dyes still used to color these threads may be contributory to dermatitis, but there is also concern for health and environmental hazards to children. Strict regulation is needed in the manufacture of these threads to protect the health and welfare of young children.

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'Learning from home': role of e-learning methodologies and tools during novel coronavirus pandemic outbreak

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Received 27 April 2020 Revised 20 July 2020 Accepted 24 September 2020 Published Online Rist 5 November 2020 ABSTRACT Background

During the crucial time of coronavirus pandemic, education is being remodelled: opening the doors of electronic learning (e-learning). The review emphasises on the various e-learning methods that can be used in the current scenario.

Methods

The review was based on Preferred Reporting Items for Systematic Reviews and Meta-Analyses (PRISMA) guidelines on databases, namely, PubMed, Google Scholar and Cochrane. Out of 1524 identified articles, after the process of screening and based on the eligibility criteria, 45 full-text articles were reviewed.

Though there are many caveats on the path of successful implementation this is the right time that we step towards e-learning. The article discusses the methods and took in e-learning that can modify the traditional ways of content delivery, record maintenance, assessment and feedback. Conclusion

During the period of "planet arrest", when the whole world is locked downwith the motive of social distancing. let us stay connected with e-learning.

INTRODUCTION

Novel communities pandemic outbreak in 2020 is a world-shattering event affecting all domains of lives. In order to cartail the spread, lockdown across the globe is being implemented. With the closure of educational institutions, the students face doldrums in their academic activities. In these trying times, technology cames to the fore, transforming teaching and learning into a novel experience.

Electronic (e)-learning is the most convenient tool that is being used ediably to meending geographical feoniers and time zones. E-learning is defined as any educational intervention that is mediated electronically via the internet.

Education technology firms are going to be uplifted in the wake of the coronavirus outbreak. Organisations and institutions are at present keenly interested in offering blended mode of learning to facilitate better education and for accreditation purposes. Moreover, e-learning is belitting to the colleges with greater annual intake of undergraduates, owing to its capability to address large group learners at a single point. It is high time that medical teachers learn and

orient themselves in the realm of e-learning. The process of e-learning enhances self-motivation of the current smart generation and offer learners control over content, learning sequence, allows the learner to work at their own pace, provides opportunity to build on their previous experience and offers a problem-centric learning environment. Thus, e-learning offers increased learner autonomy and self-direction, thus fulfilling the adult learning principles.

Taking all these facts into consideration, probably, Information Communication Technology (ICT) will facilitate to temperarily fill the persent gap in education, by enhancing the learner's knowledge, keep automated records of individual student activities, evaluate them and track their academic performance for a specified period of time.

With this perspective in mind, the current review aimed to expilore the available of training modalities that can be employed to fost or medical education. This review may serve as a resource material to a beginner and an update to regular users of of carming.

METHODS

We followed Preferred Reporting Items for Systematic Reviews and Meta-Analyses (PRISMA) guidelines and recommendations as depicted in the PRISMA flow diagram (figure 1).

We searched PubMed, Google Scholar and Cochrane from the year 2000 to March 2020 for all published articles on e-learning in education.

Search strategy

The search was conducted using the following, Medical Search Headings (MeSH) terms and keywords, namely, 'Online learning', 'Medical education', E-learning', employing Boolean operators like AND, OR.

Indusion criteria

All original and review articles fulfilling the following eligibility criteria were included in the study: (i) e-learning methods and took enabling the teaching learning process and (ii) articles published in peer review journals in English from 2000 antil March 2020.

Exclusion criteria

Articles were excluded, if they belong to any one of the following categories: 6) commenturies, case studies, case series, letters, thesis, dissertations, reports.

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Face and Neck Pigmentary Alterations in Hair Dye Users: A Cross-sectional Study from South India

Abstract

Background: Hair dyes are commonly used for the concealment of grey hair in India. The pigmentary alterations produced by hair dyes on the face and neck have not received sufficient attention. Aims: To study the pigmentary alterations on the face and neck in hair dye users, and identify possible risk factors associated with the face and neck hyperpigmentation. Methods: A hospital-based descriptive cross-sectional study was done on consecutive hair dye users. A detailed history was taken, and a clinical examination was done to record the pigmentary alterations. The patterns, areas affected, the intensity of hyperpigmentation, percentage of the area involved and risk factors were noted. Results: One hundred and twenty patients were included in the study. Around 118 (98.3%) patients had hyperpigmentation over face and/or neck. 16 (13.3%) burely perceivable, 40 (33.3%) mild, 44 (36.7%) moderate, and 18 (15%) severe pigmentation. The lateral forchead (106, 88.3%), the helix of the ear (106, 88.3%), central forchead (97, 80.8%), and rygomatic area (92, 76.7%) were the most frequently affected areas in our study. Fourteen patients (11.7%) had depigmented macules on the scalp and/or lips. Conclusion: Pigmentary alterations, particularly hyperpigmentation over the upper face and cars are common with the use of hair dyes. The skin type may play a role in the intensity of hyperpigmentation.

Keywords: Contact dermatitis, hair dye, melanosis

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Introduction

The face and neck are commonly affected in several diverse acquired pigmentary disorders such as melasma, photoallergic and phototoxic drug reactions, lichen planus pigmentosus, premented comtact dermatitis, post-inflammatory hyperpigmentation, ashy dermatosis, erthromelanosis follicularis facisi et colli, erythrose peribuccale of Brocq. ephelides, maturational dyschromia acanthosis nigricans, and exogenous ochronosis. [1,3] Hair dyes have been implicated in some reports of facial pigmented contact dermatitis, lichen planus pigmentosus, acquired dermal hyperpigmentation. and depigmentation [4.9] However, there is a paucity of studies on the pigmentary alterations on the face and neck in hair dye users. Hence our objective was to study the pigmentary alterations on the face and neck in hair dye users and identify possible risk factors associated with the face and neck hyperpigmentation.

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Methods

Setting

A hospital-based descriptive cross-sectional study was done in the department of dermatology of a tertiary care institute located in south India. The study was done for a period of 1 year from November 2017 to October 2018.

Study participants

Consecutive consenting semi-permanent permanent hair dye users of both genders, and above 18 years of age, attending the dermatology outpatient department were included in the study. Patients with other congenital or acquired causes of face and neck pigmentary alterations, including the use of cosmetics, fairness creams, leave on shampoos, hair cils other than coconut cil, herbal agents such as turmeric and topical or systemic drugs, or systemic conditions known to be associated with pigmentary alterations were excluded from the study. Patients with depigmentation were included only if the depigmentation started after

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Exploring the Novel Therapeutic options in Global Pandemic COVID 19

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Conflicts of Interest: Nil

Introduction

In the prevailing novel coronavirus disease 2019 (COVID-19) Global Pandemic spreads, major focus is interrupting its transmission with the standard public health measures on early diagnosis, tracing of contacts and isolation of patients. The current scenario warrants an urgent development of potential strategies and therapeutic options which is a major public health concern. More robust data on antiviral drugs which are effective against COVID 19 is yet to come. Both coronavirus disease 2019 (COVID-19) and severe acute respiratory syndrome (SARS) are characterised by an overexuberant inflammatory response and, for SARS, viral load is not correlated with the worsening of symptoms[1][2].

In this short commentary, We would like to discuss the possible therapeutic options with Montelukast, Leflunamide and Pycnogenol for this novel pandemic, Covid-19.

Montelukast is one of the most commonly used drug among the pulmonologists as an add on therapy in the clinical management of Asthma Standard dosage in adults is usually 10mg once a day. Various studies quote montelukast as potential anti inflammatory agent when given in higher doses Doses upto 1000mg is found non toxic in clinical trials.

Cysteinyl leukotrienes (CysLTs) are lipoxygenase products derived from the metabolism of arachidonic acid and they are potent endogenous mediators of inflammation. Montelukast is a leukotriene receptor antagonist (LTRA) that acts as an antagonist of CysLT1R, blocking its signal transduction without affecting cysteinyl-LT signalling through CysLT2R, or the action of leukotriene B4 (LTB4) via the BLT receptors.

Mahir Igde et al studied the antiviral properties of montelukast in human herpes and adeno viruses invitro which showed significant decrease in viral infectivity [3].

age 498

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 3.

Arterial thrombosis in antiphospholipid syndrome (APS): Clinical approach and treatment. A systematic review.

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Thrombotic Antiphospholipid Syndrome (APS) is a condition affecting young individuals in whom a thromboembolic event occurs in the presence of circulating antiphospholipid antibodies (aPL). An extensive body of literature has covered the most common clinical presentation of the syndrome, venous thromboembolism. Arterial thrombosis in APS, a lesser clinical expression, is less studied. This review will concentrate on the body of literature concerning pathogenesis, clinical presentation and management of arterial thrombosis in APS.

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Double Trouble: A Rare Association between Chronic Total Occlusion of the Left Main Coronary Artery and Colonic Malignancy

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Abstract

Emerging evidence has shown an association between cardiovascular (CV) disease and cancer due to shared risk factors and biological mechanisms especially chronic inflammation. The objective of this case report is to highlight the association between these two lethal decases and the challenges in the management of coronary artery disease in patients with coexisting malignancy.

A 65-year-old nonsmoker, nondiabetic, and normotensive male presented with a history of abdominal pain and significant weight loss. Colonoscopy and biopsy showed adenocarcinoma of the ascending colon, and he was planned for right hemicolectomy. Electrocardiogram exercise stress test performed as a part of preoperative evaluation was strongly positive. Coronary angiography was suggestive of Chronic total occlusion of the left main coronary artery. Though the syntax score was intermediate, coronary artery bypass grafting was decided as the revascularization strategy as he needed early surgery for the colonic malignancy. A month later, he underwent right hemicolectomy.

Clinicians should be aware of the association between CV disease and cancer as they are likely to face similar situations where both coexist. Understanding the con-- chronic total occlusion nections between heart disease and cancer will help to formulate combined preventive

quidelines.

Keywords

- colonic malignancy

Introduction

Chronic total occlusion (CTO) of the left main coronary artery (LMCA) is uncommon, and survival depends on good collaterals from the right coronary artery (RCA). Emerging evidence suggests a relationship between cancer and coronary artery disease (CAD) due to shared risk factors and biological mechanisms especially chronic inflammation.

The management of CAD in cancer patients can be challenging due to issues related to cancer treatment or the

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Insect tattoos



Figure 1: Multiple irregular light brown to blackish brown macules of varying sizes over bilateral soles

A 62-year-old male patient presented with sudden-onset asymptomatic, multiple irregular light brown to blackish-brown macules of size varying from 0.1 to 0.7 mm on bilateral soles [Figure 1]. The insteps were spared. There was history of him walking barefoot in his grocery shop, where there were multiple insects crawling over the floor during the monsoon season. The macules could not be removed with soap and water, but faded partially on scrubbing with acetone. A diagnosis of burrowing bug (Chilocoris assmuthi) pigmentation was made. Insects such as Kermococcus wermilis (kermes dye), Kerria lacca (lac dye), and Cochineal species (scarlet, orange, red tints) have been used as sources of dyes since ancient times. Burrowing bug produces blackish brown pigmentation when crushed. This may be due to insect pigment, ingested pigments, or the colour may

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Images in Clinical Tropical Medicine

Kissing Lesions in Paederus Dermatitis

Palaniappan Vijayasankar," Hima Gopinath, and Kaliaperumal Karthikeyan Department of Dematology, Venerodiopy and Leprosy, Sri Manakuk Vineyaper Medical College and Hospite (Pondicherry, India

A 25-year-old south Indian laborer presented with two widdlefined erythematous plaques with central cyanotic hue, equidistant from his right elbow grease on flexor aspect (Figure 1). The patient had associated burning sensation at the site of losion. The patient slept outdoors the night before and noticed the losions immediately after waking up in the morning. The losions were typical of lossing losions of paederus dematitisthat occurs because of the transfer of the irritant from one area to the adjacent areas of skin. The diagnosis of paederus dematitis was made, which is common in this region. The patient was treated with topical betamethasone and fusicle add. The losions resolved in 2 weeks without residual pigmentation.

Paederus dermatitis is an acute inflant contact dermatitis caused by the accidental crushing of the Paederus beetle, which releases its coelomic fluid containing the potent vesicant paederin. Although paederus dermatitis is seen in all zoogeographic regions across the world, it is more common in humid tropical and subtropical regions with higher incidence during rainy season. The Paederus group of insects belongs to the Staphythicae family, or der Coleoptera. Paederus beetles are noctumal in nature and draws itself to incandescent and fluorescent lights.

On crushing the insect, there is erythema followed by vesiculation, crusting, and desquamation. The lesions are set-Imiting. However, hyperpigmentation is a common sequela that may last for a month. Extensive exfoliation and ulceration can also occur. Apart from kissing lesions, other common morpho lo gical variants include dermatitis linearis and localized pustular dermatitis. There may be passive transfer of toxin to the genitals through fingers, producing lesions there. Similarly, ocular involvement also can occur, which may present as ligratocorjudivitis or perforbital dermattis popularly known as "Nairobi Eye." The lesions are usually noticed on awakening in the morning because of the nocturnal nature of the insects. It is thus termed as "night burn" or "wake and see" disease." Treatment of panderus dermatitis initially involves removing the instant by washing the area with soap and water, and using wet compress estollowed by the application of topical steroid.

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Figure 1. Two well-defined enythernations plaques with central cyanotic hus. This figure applicas in order at www.simh.org.

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Impact of Stress and Personality on Heart Rate Variability (HRV) in Prehypertensives

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Abstract

Stress is an indispensable aspect of our daily life. Individual of Type-A or type-B personality respond to the same stressful event differently. Aim of this study was to assess theimpact of stress and personality on Heart Rate Variability (HRV) in prehypertensives. 115 participants were categorized into type-A and type-B personalities based on modified enkin's questionarie as normotensives and prehypertensives based on their blood pressure recordings. During the mental stress, the TP, HF nu, HF LF were decreased (p<0.05). The LF nu and LF/HF ratio were increased (p<0.05), which was statistically significant, indicating an increased sympathetic activity and decreased parasympathetic activity in type-A prehypertensives. We can conclude that the effect of mental stress on HRV in type-A prehypertensives was much more than type-B personalities. This proves that type-A prehypertensives have a hyperactive sympathetic system and are more susceptible to stress than type-B individuals.

Keywords: Type-A Personality; Type-B Personality; Prehypertension, Heart Rate Variability; Stress.

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Introduction

Stress is an increasing occupational health problem and a significant cause of economic loss [2]. Stress may cause work related illness either directly or indirectly [3]. Our body tries to communicate with us through these signs which when neglected causes serious health problems like hypertension, cardiac diseases.

Prehypertension is systolic BP from 120 to 139 mmHg or a diastolic BP of 80 to 89 mmHg. Prehypertension is a risk factor for cardio vascular disease, decreasing the life expectancy of an individual by 5 years, as it often develops into hypertension (50% of people in 4 years) [2,4,5,6].

Prevalence of prehypertension in India is

around 7% [9] with an increase seen in south India. Prehypertension is often asymptomatic, so all the more care is needed in identifying and treating them with life style modifications and curtailing risk factors like obesity, sedentary life style, high sodium foods, alcohol, smoking, family history and to start drugs if needed [4].

The general healthy population is classified broadly into two main categories on the basis of their response to stress, as type-A and type-B personalities. Type-A being always in a rush, to accomplish more in a less time. Try to do more than 2 or 3 activities at a time and feels guilty for relaxing for a few hours. Whereas type-B personalities believe in the virtue of patience, can relax and do nothing for days without feeling

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Management of Pemphigus Vulgaris with Rituximab: A Case Report and Brief Review on Emerging Treatment Options

Massillamani Francis, Naga Leela Guntuku¹, Dhandu Leena, R. Geetha¹

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Abstract

Pemphigus vulgaris is the most common autoimmune vesiculobullous disorders. It presents with flaccid bullae on the skin and crossons on the mucosa. Severe cases can be life-threatening and hence prompt treatment can prevent untoward consequences. Earlier, steroids were the mainstary of treatment but it causes further medical problems. Nevertheless, new studies have emerged about the puthogenesis of the diseases and treatment protocols have been updated with newer drugs that had comparatively less adverse effects. We report a case of pemphigus vulgaris with extensive involvement of skin and oral mucosa treated with rituoimab and adjuvant immunosuppressants and a brief update on various treatment protocols.

Keywords: Corticosteroids, pemphigus vulgaris, rituximab

INTRODUCTION

Pemphigus is a group of autoimmune, blistering disease which is potentially fatal presenting as blisters and erosions involving the skin and nuccosa. The origin of the name pemphigus is from the Greek word "Pemphix" meaning bubble or blister.[1] Peniphigus vulgaris is the most common type with incidence rate of 0.1-0.5/1000000 population/year.[1] This disease has a female predilection and shows a peak in the fifth and sixth decade of life. Oral lesions precede the occurrence of skin lesions in over 70% of cases and in cutaneous disease 90% of cases show concomitant oral lesions. The integrity of skin and nuncosal keratinocytes is maintained by cell-cell adhesion molecules, namely desmosomes.[4] In pemphigns, IgG autoantibodies are directed against desmogleins causing breakdown of skin and nnacosal barrier which is evident as an intraspithelial blister. This case report discusses a severe case of pemphigus vulgaris treated with a multidisciplinary approach by dentists and dermatologists using riturimab and adjuvant immunosuppressants as first line of treatment instead of conventional corticosteroid therapy.

CASE REPORT

A 55-year-old female patient reported with a complaint of ulcers in her mouth for the past 3 months. On further

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Clinical examination revealed erythematous lesions with crustation of size 1×1.5 cm, irregular in shape which bleeds on touch on the lower lip as shown in Figure 1. Erosions were present on the chest and trunk of size 1×1 cm, oval, erythematous base, and surrounded by erythematous halo as shown in Figure 2. Intraoral examination revealed irregular ulcers in the lower labial mucosa below the vermilion border of size 1.5×2 cm, with erythematous base without surrounding erythematous halo, bleeds on touch. Ulcer involving the labial

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Identification of subclinical cognitive impairment in chronic obstructive pulmonary disease using auditory P300 event related potential

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Abstract

Adequate cognitive functioning in chronic obstructive pulmonary disease (COPD) patients is essential to understand the nature of the disease, adherence to treatment, and for leading a better quality of life. While cognitive impairment in severe forms of COPD have been well documented, identification of subclinical cognitive impairment in stable COPD patients remains crucial for planning prevention strategies. He are the present study aimed to study and compare the cognitive function between the COPD patients, and normal individuals. The cognitive function was assessed in 42 stable COPD patients and 42 normal individuals with Mini Mental State Examination (MMSE), and auditory P300 event related potentials. Baseline characteristics and the e-ognitive parameters were compared between the COPD patients and the normal individuals; a p<0.05 was considered statistically sigmilicant. The latency of the P300 waves was significantly (p<0.05) prolonged (304.27=20.73 in COPD, 291.11=24.53 in normal individuals), and the amplitude (4.36±1.56 in COPD, 5.46m3.12 in normal individuals) was significantly reduced in the COPD patients compared to the normal individuals. MMSE scores were also significantly (p<0.001) different between the

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Contributions: All authors contributed on unity.

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Key words Cognition; COPD; MMSE; P300.

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This article is distributed under the terms of the Creative Commons Attribution Noncommercial License (by no 4.0) which permits any noncommercial use, distribution, and reproduction in any medium, provided the original mather(s) and source are credited. COPD patients (26.97±0.89), and the normal individuals (27.80±0.83). Cognition may be affected even at the earlier stages of the disease among the COPD patients, as evident by changes in the P300 values. Auditory P300 event related potential may be used as an adjunct to the routine MMSE examination, as it serves as an effective tool in identifying the cognitive impairment in different stages of COPD. This may help the patients to adopt prevention strategies that help to avoid adverse effects on cognition in future.

Introduction

Chronic obstructive pulmonary disease (COPD) may be considered as a complex disorder associated with several systemic consequences, and comorbidities [1]. Understanding and identification of the comorbidities in COPD may help to recognize the pattern of the disease, and in planning interventional strategies. Adequate cognitive functioning in patients is essential to understand the nature of the disease, adherence to treatment, and for leading a better quality of life. Cognitive dysfunction may also be associated with increased morbidity and mortality. There has been increased recognition of cognitive impairment in patients with severe COPD in the past few years [2,3]. Hypexemia, systemic inflammation, associated comorbidities like smoking, and a veral other factors have been linked with cognitive dysfunction in COPD [4].

Literature search on cognitive functioning in COPD patients revealed conflicting results. While some studies identified cognitive impairment in end stages of COPD [5], and during acute exacebations [6], few studies identified mild cognitive impairment even in non-hypoxemic stable COPD patients [7]. Hence degree of cognitive dysfunction in different stages of COPD need to be explored. Prior studies that studied cognitive function in COPD patients relied on MMSE mini-mental state examination (MMSE), and other battery of tests, which are well known to be influenced by several confounding factors [8,9].

Event related potentials are the voltage changes induced within the brain in response to a variety of sensory, motor and cognitive processes. P300 is a long latency endogenous contically generated positive wave form of auditory event related potential, with maximum peak around 300 milliseconds, post stimulus [10,11]. It is widely recognized as a valid tool in assessing the cognitive function. The changes in P300 amplitude reflect the nature of information processing and P300 latency is related with cognition ability, and attention. Unlike other psychometric tests, event related potentials are not influenced by personality traits, or education-

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Case Report

Management of Pemphigus Vulgaris with Rituximab: A Case Report and Brief Review on Emerging Treatment Options

Massilismani Francis, Naga Leela Guntuku¹, Dhanda Leena, R. Geetha¹

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Analysis of histomorphological study in Hansen's disease: A hospital based study done in rural population

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Abstract

Leproxy, also known as Hansen's disease is a chronic infectious disease caused by Mycobacterium Leprae. It still continues to be a major public health problem in India.

AIM: The study was aimed at analysing the histomorphological features of leprosy in skin biopsies and based on histological findings they were categorised according to Ridley-Joplings classification. Clinical correlation was also done wherever possible.

Materials and methods: After adequate fixation of skin biopsies with 10% formalin, routine processing was done and tissue embedded in paraffer section of 5µ thickness and then stained with Hernatoxylin and Bosin (H&E) and Fite-Faraco stain, subsequently studied under microscope.

Results: Total of 35 skin biopsies were studied, with the mean age of presentation ranging from 14-72 years, showing male predominance. Boderline tuberculoid (37.14%) was the most common type. Atrophic epidentes was seen only in 9 cases but Grenz zone was present in all 12 cases of Lepromatous leprory. Epithelioid granuloma is the commonest finding in Boderline Tuberculoid type. Clinico histomorphological correlation was made in 23 cases and discoherence was found in remaining 12 cases.

Conclusion: Correlation of clinical and histopathological features along with bacteriological index plays a prvotal role for accurate typing and for prognostication. Clinicopathological concordance is highest in polar forms, and being least in Indeterminate Leprosy (IL).

Keywords: Histopathological features, clinical presentation, Ridley Jopling classification, leprosy

Introduction

Leprosy is a non fatal, chronic infectious disease caused by Mycobacterium leprose, with different clinicopathological forms, depending on the immune status of the patient [1]. WHO implementation of Multidrug therapy has contributed leprosy to be a less prevalent infection with less than one case per 10,000 population with 90% of its endemic countries [3]. In India the prevalence rate has reduced from 57 per 10,000 in 1981 to 0.84 per 10,000 in 2000 (8). Clinical presentation includes Skin lesion such as hypo pigmented macules, erythematous plaques, papules and nodules. Neural involvement include numbness, loss of sensation, neuritis and disability. Major cause of morbidity in leprosy are its unique tropism of M. leprae for the peripheral nerves (from large nerve trunks to microscopic dermal nerves) and certain immunologically mediated reactional states. When left untreated, the tendency of disease progression to characteristic deformities and the recognition in most cultures that the disease is communicable from person to person have historically resulted in profound social stigma. Clinical diagnosis is confirmed by histopathological examination of skin biopsy & determination of Bacterial index (BI) [4]. The gold standard for diagnosis of leprosy is by histological examination [5]. The Patients in lepromatous group is the main source of infection and discharged into environment through oronasal secretion and from skin ulceration. The nasal mucosa plays the main role as the entry and exit of leprosy bacilli is through the nasal mucosa [6]. The categorization of leprosy was done according to Ridley-Jopling classification (1966). It is based on immunological, histological and microbiological parameters, grouped as Tuberculoid (TT), Borderline tuberculoid (BT), Borderline borderline (BB), Borderline lepromatous (BL), Lepromatous leprosy (LL) 17

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A Case Report of Heart Block due to Intracranial Hemorrhage

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Abstract

Brain and heart have many connections both in disease and physiology. Most of the literature refers to neurological complication of underlying cardiac disease. In this case report we present a cardiac complication due to acute stroke, which is rather frequent in clinical practice. Here we present a patient with second degree heart block followed by neurological deficit, due to acute intracranial hemorrhage. The heart block regressed along with neurological stabilization a few days later.

Introduction

Acute stroke has been associated with a variety of medical complications including cardiac abnormalities like myocardial infarction, stress cardiomyopathy and arrhythmias. Cardiac arrhythmias in acute stroke leads to hemodynamic instability causing cerebral hypoperfusion to critical areas, which has a negative impact on short term prognosis. It also increases risk of sudden cardiac death and recurrent thromboembolism particularly in patients with intracranial hemorrhage. The greatest risk of arrhythmias is within first 24hrs of stroke and with marked decline in time.

Case Report

A 24 year old female, gave birth to a male baby by normal vaginal delivery with episiotomy. She had an uneventful antenatal history. Few hours after delivery patient complained of headache with palpitation and sweating. Examination vitals were stable with systemic examination normal. An hour later her heart rate was around 45 per minute, ECG showing second degree heart block. 10 minutes later patient complained of left sided sensory loss from head to toe. Examination showed loss of pain, touch and vibration sensation over the left side of body, with 0/5 power on the left side, with exaggerated deep tendon reflexes and extensor plantar. CT Brain showed hemorrhage in the right gangliocapsular and thalamic region of size 3x3 cm. Her complete haemogram, renal function tests and liver function tests were normal. PT, INR & aPTT were normal and test for APLA syndrome & ANA were negative.

MRI Brain taken on the next day showed hyperintensity involving the right side midbrain, pons, thalamus, basal ganglia, internal capsule and insular cortex suggestive of acute Intracranial Hemorrhage with evidence of midline shift. She was treated with Anti Edema drugs, anti seizure

Dr Manomenane.M et al JMSCR Volume 08 Issue 12 December 2020

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A case report of stroke due to brain stem tuberculoma

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Abstract

Tuberculosis still highly prevalent in developing countries commonly affects the lungs. Central nervous system (CNS) involvement in tuberculosis is common in India but tuberculoma a manifestation of tuberculosis which mimics a tumor is not common.\(^1\) most of the CNS tuberculoma presents with seizures or focal signs \(^1\) here we presents an elderly female with acute CVA with right sided hemiparesis \(^1\) computed tomography of the brain showed a hyperdense lesion in the left pons. Further contrast enhanced MRI brain revealed left pontine tuberculoma. There are few case reports of tuberculoma presenting as acute stroke.

Keywords: Stroke, brain stem, tuberculoma.

Introduction

Tuberculosis a disease caused by acid fast mycobacterium tuberculosis complex bacteria commonly affect the lungs although other organs are involved in about one third of cases. In India with a huge burden of tuberculosis (incidence of 2.2 million cases in 2015) extra pulmonary tuberculosis is a common manifestation. CNS tuberculosis presents as basal meningitis which may complicate by causing obstructive hydrocephalus. Tuberculosis is a rare manifestation of CNS tuberculosis presenting as a space occupying lesion with focal signs or seizures.

Case Report

A 67 years old female patient presented with sudden onset of difficulty in using right upper and

lower limb for one day duration she also had slurring of speech and urinary incontinence. No history of trauma, not a diabetic, hypertensive or coronary artery disease. No history of pulmonary tuberculosis in past or contact history of tuberculosis. On examination patient was conscious and oriented, pallor +, pulse -94 bpm and blood pressure was elevated 160/110mmhg. Cardiac and respiratory auscultation was normal and CNS examination revealed patient conscious and oriented, higher mental functions were intact. Patient had right UMN facial nerve palsy and urinary incontinence. Her power was 2/5 in right upper and lower limb with hypertonia and exaggerated deep tendon reflexes, bilateral plantar extensor. Patient was admitted as a case of acute CVA with right hemiplegia with UMN facial palsy and evaluated.

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A Case Report of Septic Pulmonary Embolism

Authors

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Septic pulmonary embolism (SPE) is one of the uncommon disease where septic thrombi get mobilized from infectious site through vascular system of lungs. The common causes of septic pulmonary embolism are central venous infections, venous thrombophlebitis, iv drug abuse and dental abscess. Most of the cases were associated with infective endocarditis (IE) of the tricuspid valve. But any infection can spread into the lungs. Here we present a 20 year old female patient presented with septic abortion developed septic pulmonary embolism and IE of the tricuspid valve. The causative organism was methicillin resistant staphylococcus aureus and improved with antibiotics and supportive care. Keywords: Pulmonary embolism, sepsis, infective endocarditis.

Case Report

A 20 year old female presented to us with complaints of fever for 7 days duration with loose stools 5 to 6 episodes per day for 5 days and discharge per vaginum for 7 days - minimal and foul smelling. Patient gives history of termination of pregnancy at 3 months gestation by curettage by a quack 7days back, after which she developed the symptoms. Patient is married and has 2 children. Menstrual history normal.

On examination Patient was conscious and oriented, tachypneic and dehydrated, febrile temp 103 F, pallor ++, pulse - 136/ min low volume and BP - 80/50 mm Hg. Systemic examination revealed no abnormalities. The patient was admitted with the diagnosis of septic abortion in septic shock.

Her complete haemogram revealed anemia with

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severe thrombocytopenia (haemoglobin - 6.8 g%, total leukocyte count - 8300/ cumm with neutrophil predominance 80% and platelet count -51000/ cu mm.). Her blood glucose, renal function tests, liver function tests and serum electrolytes were normal

ECG showed sinus tachycardia, echocardiography was normal and chest X ray normal. Patient was started on iv fluids, inotrope support and iv antibiotics (imipenam and metronidazole) after sending blood, urine and vaginal cultures. Her ultrasound abdomen revealed bulky uterus with retained products of conception. Obstetrician opinion was obtained and dilation and curettage was done on day 3 of admission. Anemia was corrected with blood transfusions.

After 5 days of intensive care treatment patient had persistant fever spikes with increasing

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Recurring Fever in a Cancer Patient – "Light at the end of the Tunnel" – Case Report

Authors

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Abstract

Recurrent fever can be the manifestation of autoimmune disease, malignancies and infections. Working up the cause of fever in a patient with underlying malignancy and under treatment can be a challenging task. We present a case of 46 years old female with breast carcinoma, who presented with recurrent fever episodes. The patient was evaluated and found to have catheter (tunnelled) related septicaemia, septic emboli and endocarditis. Device related infections need high index of suspicion and treatment should be planned based on the type of catheter and organisms.

Keywords: Right sided infective endocarditis, septic emboli, tunnelled catheter, device related infection.

Introduction

Recurrent fever can be the manifestation of a wide range of diseases including autoimmune disease, malignancies and infections. A recurrent fever is defined as >12 episodes over a period of 12 months with a minimal interval of seven days between episodes. Such cases are approached by taking a comprehensive history, detailed physical examination and relevant laboratory investigations. Most unexplained fever are often diagnosed within one week of hospital evaluation or 3 outpatient visits. We present a case of breast

carcinoma who has completed a course of chemotherapy and under radiotherapy for the past l month.

Case Report

A 46 year old female with left breast carcinoma who underwent modified radical mastectomy and on chemotherapy through a chemo-port in right internal jugular vein presented with complaints of intermittent fever with chills and rigors for one and half a month and altered behavior since 2 days and was treated elsewhere with 5 days course of

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How Atopic is Prurigo in the Tropics?: An Etiological Survey in South India

Sir.

Prurigo nodularis is a chronic inflammatory condition of uncertain etiology, reported to be more common in middle-aged women.[1] The prevalence of atopic diathesis in patients of prurigo has been reported to be as high as 77%.[4] There is no similar data on South Indian patients with prurigo nodularis. Further, Parthentum hysterophorus is a wood that grows rampantly in some areas of rural South India. Contact dermatitis to parthenium has been reported to cause prurigo-like nodules. Hence, this pilot study was planned to assess the role of various known etiopathological factors, especially atopy and parthenium sensitivity in our patients of prurigo nodularis.

The present study was a cross-sectional study done over a period of I year at the Dermatology Outpatient Department of a tertiary care hospital catering mainly to the rural population of Puducherry and Tamil Nadu. After getting approval from the Institute Ethics Committee, a total of 31 patients with prurigo nodularis, clinically diagnosed by consensus among two independent dermatologists, were recruited over a period of 1 year and evaluated. After obtaining informed consent from the patient, the demographic and clinical details were entered in the predesigned proforms. Skin biopsy, tissue culture and sensitivity, Mantoux test, serum lactate dehydrogenase levels, thyroid function tests, serum immunoglobulin E (SrIgE) levels, and patch tests were done on all the patients. A psychiatry consultation was obtained to assess any comorbid psychiatric disorders or mental stress. Data obtained were tabulated in an Excel chart and summarized using descriptive statistics.

Among the 31 patients enrolled in the study, 23 were females and 8 were males, with an approximate M:F ratio of 1:3. Twelve patients were students and eight were homemakers. Nearly half (n = 14)of the patients were less than 20 years of age (mean ± standard deviation (SD): 31 ± 18.5). Most patients had lesions on their shins [Figures 1 and 2]. None of the patients had any other dermatological disorder or personal or family history of atopy or childhood eczema or flexural dermatitis. However, serum eosinophilia (>5 × 10 /L) was seen in 11 patients and raised SrIgE levels (>300 IU/mL) was seen in 14 patients.

Two patients exhibited positive patch tests for fragrance fragrance mix, 1 for parthenium and 1 for colophony. Four patients gave history of significant stress, though none of the patients were diagnosed to have a major or minor psychiatric illness. This was in contrast to a study where 50% of 46 patients were found to have a psychological disorder requiring intervention. [1] However, Iking er al. reported absence of a monofactorial underlying psychological factor, and of psychological factors presence occurring in association with other systemic or dermatological factors in only 11 patients (5.6%) in their study.[1] Two patients were diagnosed to have prurigo of pregnancy. Five patients had nutritional anemia. Thyroid function tests were normal in all the patients. Acid-fast bacilli were demonstrated in the tissue of one patient through tissue staining; however, culture did not grow any bacteria. In two other patients, Mantoux test was reactive. Skin biopsy was suggestive of prurigo nodularis in most patients; neural hyperplasia was seen only in two cases. Extravasation of red blood cells without other features

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Effect of 24-hrs of sleep deprivation on Central Auditory Processing in young people - A Quasi-Experimental study



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ABSTRACT

Background: Adequate amount of sleep is the basic need for survival. It is a well-known fact that disturbed sleep, acute or chronic, deteriorates the homeostasis. Sleep deprivation (SD) produces many adverse health consequences by affecting almost all the organ systems and their functions. However, sufficient literature was lacking on the effect of SD on central auditory processing (CAP), especially the temporal resolution component in young individuals. Aims and Objective: Therefore, this study aimed to investigate the impact of 24-hrs of sleep deprivation on the temporal resolution ability of young healthy night-shift employees. Materials and Methods: It was a Pretest-posttest study design (Quasi-Experimental study) comprising sixty (N=60) healthy security staff. After the initial survey, Tuning fork tests and Pure Tone Audiometry were performed to rule out hearing loss. Temporal resolution was assessed twice (before and after SD) by Random Gap Detection test (RGDT) where a pair of pure tone was presented at different frequencies with 'intervals of silence' between each pair of tones and average time interval (in milliseconds) was taken. Data analysis was done by SPSS 24 software. Results: There was an increase in RGDT values after sleep deprivation 10.70 ± 0.46 (Mean ± SD), but the difference was not significant (p-value = 0.5172) when compared with baseline values 10.65 ± 0.48 (Mean ± SD). Conclusion: Based on the research findings, we conclude that 24-hours of acute sleep deprivation didn't show any negative impact on the temporal resolution component of CAP mechanism in young, healthy individuals.

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Key words: Central auditory processing: Homeostasis: Pure tone audiometry: Random gap detection test: Sleep deprivation

INTRODUCTION

Sleep is a vital biologic process necessary for the aurvival of all living creatures. In human beings, an adequate amount of sleep is a fundamental requirement in everyday life for maintaining optimal health state i.e. Homeostasis. Existing literature on sleep provides us variety of definitions. In simple terms, sleep is defined as the state of unconsciousness from which a person can be aroused by sensory or other stimuli.1 Being essential for life, sleep plays an important role in optimal functioning of various physiological processes of nervous, immune, hormonal, cardiovascular, and other systems.

Inadequate sleep or sleep deprivation (SD) is a common problem in modern society affecting almost all humans irrespective of their professions. Numerous factors affect sleep that range from lifestyle factors to various medical conditions. Condensed sleep-time has been associated with many adverse health consequences, which include reduced quality of life, emotional distress, autonomic nervous system imbalance, somatic problems, behavior problems, performance reductions in physical and mental tasks, obesity, hypertension, diabetes mellitus, etc.2 However, there is a paucity of information on the effect of SD on auditory processing of sound stimuli in young, sleep-deprived adults. Interestingly, by online and

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Original article

A cross sectional study on evaluation of cognitive function in subclinical hypothyroidism

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Abstract

Background: While the cardiovascular and neurologic sequelae of a full blown hypothyroidism is well established, there is lack of evidence on the influence of subclinical hypothyroidism on the cognitive functioning of the individuals. Screening of the individuals for subclinical hypothyroidien at an earlier age and identification of subtle cognitive dysfunction in early stages, may help to decide on the initiation of management.

Aim: The present study aimed to study and compare the cognitive function between the normal individuals and subclinical hypothyroidign

Methodology: The cognitive function was assessed in 52 Subclinical hypothyroidism patients and 50 normal individuals with Mini Mental State Examination (MMSE) and Montreal Cognitive Assessment Test (MoCA). Baseline characteristics and the cognitive parameters were compared between subclinical hypothyroid patients and the normal individuals, p< 0.05 was considered statistically significant.

Results: There was no statistically significant difference in the MMSE and MoCA scores between the subclinical hypothyroid patients and normal individuals. However MMSE scores were significantly different between the illiterate normal and individuals with subclinical Hypothyroidism. A positive correlation was observed between the TSH values and the MMSE scores.

Conclusion: Cognition is not affected in subclinical hypothyroidism in literate individuals. However decrement in the cognitive function with advancing age may not be excluded

Key words: Cognition, MMSE, Subclinical Hypothyroidism

Introduction

Hypothyroidism is the most common of thyroid disorders in India, affecting one in ten adults. [1] Hypothyroidism is characterized by a broad clinical spectrum ranging from an overt state of myxedema, end-organ effects and multisystem failure to an asymptomatic or subclinical condition. Subclinical Hypothyroidism is defined as elevated TSH levels in the presence of normal circulating Free T₃ and T₄ concentrations. [2] Subclinical Hypothyroidism is known to affect 3-15% of the general population [8] Thyroid hormones exhibit profound effects on central nervous

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Evaluation of one-month foundation course for the first year undergraduate students at a Medical College in Puducherry, India

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Introduction: Medical Council of India has revised the undergraduate medical curriculum by introducing "Competencybased Medical Education" which emphasizes the foundation course of one-month duration. This period is said to be essential for students to get acclimatized to the new college environment. The present study evaluated the first one-month foundation course

from students and faculty members' point of view.

Methods: The present study was program evaluation. The study participants were all 150 first year medical students joining the college and preclinical department faculty in the academic year, 2019-20. The foundation program was pre-planned and implemented as per the Medical Council of India guidelines. The program was evaluated using a pre-designed questionnaire where the items were aligned with the research question and inputs were obtained from all faculty members. Kirkpatrick framework level I was used for evaluation. Feedback was received from the faculty members by force field analysis and from student's using a five-point Likert scale. A summative approach to the qualitative content analysis was done to identify certain themes from the text data and infer meaning for the force field analysis obtained from the faculty. Considering the high rating for most of the sessions, we arbitrarily considered values above 75% to reflect good consensus and below 75% to reflect poor consensus. Consensus measure expressed in percentage was obtained for each item. The quantitative data were analyzed using open Epi info version 7.0. Results: The consensus scores ranged from 73.7 to 83.3 percent. The sessions on learning styles, student support system, self-directed learning, communication skills, medical ethics, soft skills, and orientation to health systems in India reflected good consensus, indicating that these sessions were well received by the students. Other sessions like stress management, interpersonal skills, presentation skills, email writing and ethics for mobile usage reflected poor consensus, implying the need for further improvement. As per the faculty perception, good coordination, teamwork, and proper planning at interdepartmental and intradepartmental levels were the key features for the successful implementation of the course.

Conclusion: Overall, the sessions in the foundation course were well received by the students. As felt by both students and faculty, more interactive sessions need to be incorporated. The major strength of the course was the skill module, visit to special school, and field visit to the community and primary health center. The findings will help us to improve our next year foundation program to meet the purpose of the Foundation course.

Keywords: Medical students; Medical teaching; Medical college

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Original Article

The Relationship between Non-Linear Analysis of Heart Rate Variability, QTc Interval and Cardiovascular Risk Factors in Young Individuals with Pre-Diabetes

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Abstract

Introduction: Cardiac autonomic functions and cardiovascular risk factors are closely associated with each other. This study aimed to evaluate the cardiac autonomic status employing the Poincaré plot and QTc in young pre-diabetic individuals and correlate it with the cardiovascular risk factors. Material and Methods: This was a cross-sectional study. The students participating in the health check-up program organized by the college were the study participants. Basal anthropometric measurements, detailed family, and personal medical history were documented. Autonomic functions were evaluated. Plasma glucose and lipid profile were evaluated biochemically. Based on the impaired fasting plasma glucose and impaired glucose tolerance values, subjects were classified as normal and pre-diabetes mellitus groups. Results: A total of 295 subjects (198 normal and 97 per-diabetes mellitus), were evaluated. Standard descriptor 1 and 2 in the pre-diabetes mellitus group reported a significant decrease, p<0.0001, (95% Cl 15.98, 19.07) (95% Cl 31.73 37.26) compared to the normal group (95% Cl 26.33, 30.27) (95% CI 48.39, 52.71). QTc was significantly increased in the pre-diabetes mellitus group, p<0.0001, (95% CI 415.62, 423.99). Body mass index, fasting plasma glucose, and lipid parameters reported as being significant independent variables were associated with autonomic function test parameters. Conclusion: Cardiac autonomic dyafunction starts appearing in the prediabetic stage itself. Body mass index and altered lipid profiles showed a significant association with increased blood glucose levels. Early detection at a young age can help to plan better prevention and treatment strategies.

Keywords: Impaired fasting glucose, Oral glucose tolerance, QTc interval, Heart rate variability.

Introduction

In India, 69.1 million individuals have diabetes, making it the Diabetic Capital of the world [1]. The reasons for the alarming increase may be due to rapid socio-economic and nutritional transition, lack of self-awareness, and follow-up programs in the society. As per the "ticking clock hypothesis", the microvascular disease manifestation appears in the precursor stage, before the expression of full-blown clinical type 2 diabetes mellitus [2]. According to the American Diabetes Association, pre-diabetes is Impaired Fasting Glucose (IFG) ranging from 100-125 mg/dL or Impaired Glucose Tolerance (IGT) of 140-199 mg/dl. [3]. Pre-diabetes is related to increased cardiovascular (CV) disease and mortality [4]. Evaluation strategies targeting the younger candidates with increased risk will be a potential boon for the society to plan early interventional strategies.

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Anticonvulsant Effect of Nebivolol alone and in Combination with Phenytoin against Maximal Electroshock-induced Seizures in Mice

ANURANJANI DHAMODHARANI, NITYA SELVARAJI, R MEENAKSHI



ARSTRACT

introduction: Phenytoin is widely used in treatment of generalised tonic clonic seizures but its adverse effects make its usage limited. Hence torth, there is a need for newer antieplieptics. Studies have shown antieplieptic property for neblvoiol in combination with phenytoin hence, reducing the dosage of phenytoin and its adverse effects and toxicities.

Aim: To evaluate the anticonvulsant property of nebivoici alone and in combination with phenytoin against Maximal Electroshock Seizures (MES) in a mouse model.

Materials and Methods: This was an experimental animal study on total of 36 swiss albino male mice were randomly assigned to six groups with six animals in each group in December 2019 at Sri Manakula Vinayagar Medical College and Hospital. Group 1 was considered as normal control, Group 2 received Phenytoin 25 mg/kg Intraperitorical (IP); Group 3 and 4 received Nebivolol 0.25 mg/kg oral and 0.50 mg/kg oral, respectively, Group 5 received 12.5 mg/kg IP and nebivolol 0.25 mg/kg oral; Group 6 received Phenytoin 12.5 mg/kg IP and nebivolol 0.50 mg/kg oral. Anticonvulsant effect of the drugs nebivolol and phenytoin was elicited in mice by MES test. After induction following parameters were recorded for onset of Tonic Hind Limb Extension (THLE), duration of clonus, duration of THLE, number of jerks, recovery time. Statistical analysis was done by ANOVA followed by post-hoc Dunnett t-test.

Results: Significant reduction in duration of THLE (p<0.01) and clonus (p<0.001) was observed in the group treated with phenytoin (12.5 mg/kg) and nebivoiol (0.50 mg/kg).

Conclusion: The present study concludes that the lower dose of phenytoin in combination with network can reduce seizures induced by MES in mice model.

Keywords: Clorus, Epilopsy, Toric hind limb extension

INTRODUCTION

Epilopsy, the most common neurological disorder is estimated to affect nearly 65 million population across the globe [1]. In India the prevalence of epilopsy accounts for about 1% of the population [2]. Phenytoin, a conventional antiopiloptic drug is effective in the treatment of generalised tonic-clonic settures, partial settures and convulsive status epilopticus. Over the year's various adverse effects of phenytoin namely phenytoin encephalopathy on chronic administration have been reported. In view of its potential adverse effects, phenytoin is not recommended as the first choice for treating epiloptic settures [3].

Hypertension, the most prevalent modifiable risk factor for both ischaemic and haemorthagic stroke, is often associated with epilopsy [4]. Studies reveal that antihypertensives with beta receptor antagonist property such as neblyoloi and propranoloi possess anticonvulsant action in animal experimental models [5,6]. Neblyoloi is a highly cardio selective beta blocker which is devoid of intrinsic sympathornimelic activity and a potent antioxidant and highly lipophilic drug. These properties may be useful as anticonvulsant effect which has been evaluated in previous studies, individually and in combination with lamotrigine and gabapentin [6-8].

The combined effect of neblvoici and phenytoin has not been done so far. Hence, the alm of the study was to evaluate the anticonvulsant effect of neblvoici and its combined effect with phenytoin against maximal electroshock-induced setures in mice.

MATERIALS AND METHODS

The experimental animal study was conducted in December, 2019 in the animal house at the Sri Manakula Vinayagar Medical College and Hospital, Pondichemy, India. Approval from the Institutional Animal Ethics Committee (IAEC/SM/MCH/026/2018) was obtained before starting the study. Good Laboratory Practice (GLP) and Committee

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for the Purpose of Control and Supervision of Experiments on Animals (CPCSEA) guidelines were followed throughout the study.

Study Subjects

Thirty-six naive adult male Swiss albino mice, each weighing 20-25 g were procured from Tamil Nadu veterhary and animal sciences university. Chennal. The animals were housed in groups of six in polypropylene cages and maintained at room temperature (24-27°C) under 12:12 hour light/dark cycle and were acclimatised for a period of 7 days in the animal house prior to the experiment. The mice were put on a standard pollet diet and water ad libitum. The experiment was conducted throughout during the light period especially between 10.00 and 14.00 hours.

Drugs

Nebivolol (Nebistar, Lupin Ltd., Mumbal) at doses of 0.25 mg and 0.50 mg/kg were suspended in 0.25% of Carboxy Methyl Cellulose (CMC) in 0.9% saline solution and administered orally. The standard drug, phenytoin sodium (50 mg/mL), was procured from Pfzor, India and was diluted in 0.9% saline solution to a dose of 12.5 mg/kg. All dosages were freshly prepared on the day of the experiment. Doses were selected based on previous studies [3,6].

Experimental Design

A total 36 mice were randomly assigned to six groups. Each group comprised of six animals. The dosage and route of administration of the drugs in each group are as follows:

Group 1: Vahida - distilled water 10 mi./kg orgi

Group 2: Phonytoin 25 mg/kg intraportioned (IP)

Group 3: Nabivolol 0.25 mg/kg oral

Group 4: Nablvolol 0.50 mg/kg oral

Group 5: Phonytoin 12.5 mg/kg IP and notal-viol 025 mg/kg oral

Group 6: Phonytoin 12.5 mg/kg IP and nablyolol 0,50 mg/kg ora

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Phenytoin Induced Erythema Multiforme

Dhamodharan Anuranjani, Selvaraj Nitya*, Sivagourounadin Kiruthika ment of Pharmacology, Sri ManakulaVinayagar Mind

Phenyton is conventional antisplaptic drug is effective in the treatment of generalized toric-clonic secures but its adverse effects makes its usage limited. We herein present the case of Phenyton induced Enythems Multiforms. A 65-year-old siderly female presented to our hospital with a 3 days history of tiching all over the body, multiple reddish lexions over bilateral arms, forearms, anterior expect of chest, trunk, bilateral palms and acks. Patient developed skin lesion 1 month efter and she started taking phenytoin 100 mg twice a day for left frontal temporal subdural hernatoms Dermetological examination revealed multiple tengloid leasons over the lateral aspect of neck. Phenyton was discontinued and the skin lesions resolved apontaneously within 2 weeks. The health-care professionals. DOI: 10:5530/yp 2020.12:98

should be evere of such dermetological reactions so that it can be egnowed and treated early

Key words: Antispleptic, Erythems multiforms, Phenyton

Comsapondence

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INTRODUCTION

The global public health problem in neurological disorder is epilepsy. This affects people of all age groups irrespective of their socioeconomic background and geographic location. This allures to undergo many studies to find out an effective drug to treat.1 The conventionally used drug for the control of epilepsy is phenytoin. Since then it is being widely used for control all type of tonic-clonic and complex partial setzures till date.2 As phenyloin has wide pharmacokinetic variability and very low threshold for loxicity its use is being limited.3 The dermatological adverse reaction reported with the use of phenyloin both in therapeutic and prophylactic dose are urticaria, erythroderma, erythema multiforme (EM), Steven - Johnson syndrome and toxic epidermal necrolysis. EM is caused by the deposition of lymphohisticcytic inflammatory infiltrate around the blood vessels, which in turn causes degenerative changes in the capillary endotheltal cells resulting papillary-dermal edema.3 Many literature reviews divulged the causation of EM associated with phenyloin when used in combination with radiation therapy.4-18

Here we report a case of 64-year-old elderly female who developed erythema multiforme following the use of phenytoin.

CASE REPORT

A 65-year-old elderly female presented to the causality department in our hospital with the complaints of tiching all over the body, multiple reddish lesions over bilateral arms, forearms, anterior aspect of chest, trunk, bilateral palms and soles for the duration of 3 days. On further evaluation it was revealed that she has been diagnosed to have left frontal temporal subdural hematoma by a private practitioner. The patient was advised to take table! phenytoin 100 mg twice daily. So, she was taking the tablets for the past 1 month. On examination her vitals were stable. Dermatological examination revealed multiple tangloid lesions over the lateral aspect of neck, few erythromatous papules over anterior trunk, multiple target lesions papules over the flexor and extensor aspect of bilateral forearms (Figure 1), multiple purpuric macules present over anterior aspect of neck region, multiple areas of pinpoint petechiae present bilateral paires and soles. Routine blood investigation was done. The patient was diagnosed as a case of phenytoin induced erythema multiforms. Then she was treated with tablet hydroxyzine 10 mg, tablet prednisolone 20 mg, liquid paraffin external applications (E/A), momate lotion E/A. After obtaining opinion from a neurosurgeon phenytoin was stopped. As antiepfleptic was not required at present. The lesions resolved within 2 weeks and recovered completely without any sequalae. The Naranjo's criteria and (WHO) probability scale were applied to determine the causality for suspected adverse drug reactions. The causality assessment with both scales revealed that adverse reaction due to phenytoin in this case was probable (Table 1 and 2). ILLE

DISCUSSION

Phenyloin is useful for all types of epilepsy except petit mal epilepsy. It does not cause sedation. Phenytoin has narrow therapeutic range of 10-20 mcg/ml.15 It has peculiar pharmacokinetic properties, when plasma concentration « 10mcg/ml follows first order and further increase in plasma concentration > 10 mcg/ml saturate metabolic pathway and shifts to zero order elimination. The half-life of phenytoin ranges from 6-24 hrs at plasma concentration < 10 mcg/ml bul increases to 24-60 hrs in plasma concentration > 10 mcg/mL14 So thereby dose titration must be made at small doses in longer interval. Hence the adverse effects of the phenytoin depend on plasma concentration. In higher dose, zero order pharmacokinetics makes the half-life prolonged leading in to increased toxicity. In low dose toxicity produces hyperplasta of gums, hypersensitivity reactions, hirsuitsm, hyperglycemia, hydanioin syndrome, osteomalacia, megaloblastic anemia and peripheral neuropathy. In higher plasma concentrations it affects the central nervous system.15

The dermatological adverse effects are due to hypersensitivity reaction which is caused by toxic dose of the drug associated with aromatic anticonvulsants. Anticonvulsants are converted to reactive metabolites and induce cytochrome P450 3A which produce oxidative reactive

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Original Research Article

Association of Anti - TPO Antibodies with Thyroid Dysfunction

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Abstract

Introduction: Thyroid peroxidise (TPO) autoantibodies are a secondary response to thyroid injury and do not cause disease themselves. Though the presence of Anti TPO antibody may be a halimark for autoimmune thyroid disease, there are reports that suggest the presence of Anti TPO antibodies can be a marker of thyroid dysfunction in future.

Objective: To assess the presence of Anti - TPO antibodies in patients with thyroid dysfunction.

Materials and Methods: This is a cross sectional study done on 60 Patients above the age of 18yrs attending General Medicine OPD with history of thyroid dysfunction and were subjected to thyroid function test and measurement of anti – TPO antibodies.

Results: Of the 60 patients 26 were found to be hypothyroidic, 15 were hyperthyroidic, FNAC of 7 patients suggested the presence of malignancy and 12 patients had Hashimoto's thyroiditis. A significant association was found between Anti TPO levels and trends of anaemia with a p value of 0.02. On assessing the association between thyroid function test and Anti TPO antibody level, a significant relation with a p value of 0.01 was found with trends of free T3 levels. Of the 7 patients under malignancy group, 5 patients (71.4%) who had papillary carcinoma thyroid had elevated Anti TPO antibody levels.

Conclusion: In presence of Anti TPO antibodies along with a thyroid swelling a direct diagnosis of autoimmune thyroiditis should not be made and an FNAC biopsy should always be performed to rule out the likely possibility of carcinoma thyroid.

Introduction

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May on the

Thyroid diseases are arguably, among the commonest endocrine disorders worldwide. India too, is no exception. According to a projection from various studies on thyroid disease, it has been estimated that about 42 million people in India suffer from thyroid diseases. Iodine deficiency, biosynthesis defect, autoimmune disease, neoplastic and nodular diseases can each lead to thyroid swelling or thyroid dysfunction although by different mechanism.²

Biosynthetic defects and iodine deficiency are associated with reduced efficiency of thyroid synthesis, leading to increased TSH, which stimulates thyroid growth as a compensatory mechanism to

Dr Sibi Chakravarthy. C et al JMSCR Volume 08 Issue 02 February 2020

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Histopathological patterns of ovarian lesions in various age groups-3 year study in a rural population

Dr. Ramya Gandhi, Dr. Sriram V, Dr. Jayanthi C and Dr. Erli Amel Ivan

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Introduction: Overlan lexions are commonly encountered and are complex in gynecological practice which can be either benign, borderline or malignant which constitutes a high fatality rate and it cannot be categorized clinico - radiologically. Definite diagnosis is of great importance for the specific and prognostic purposes. Histopathology gives accurate diagnosis in most of the cases.

Aims: To study the histopathological pattern of oversan lexions in different age group and also to

nalyse the associated clinical and radiological findings.

Methodic A retrospective study conducted on 69 cases of ovarian lesions reported from June 2016-May 2019 in pathology department at Sri Manakula Vinayagar medical college and hospital, Puduchern

Results: Out of sixty nine ovarian lexions, 24 were non neoplastic and 45 were neoplastic lexions. Out of the neoplastic lessons 39 were benign and 6 were malignant. Among non-neoplastic lessons follocular cyst 12 was the most common lesion followed by endometriotic cysts 10. The majority of the cases were seen in the age group of 41-50 years.

Conclusion: Most ovarian lesions were common in the age group 20-50 years. Neoplastic ovarian lenors are more common than non-neoplastic lenon

Keywords: ovarian lesion patterns, histopathology, ovarian neoplasms, surface epithelial tumor, mangrancy

Introduction

Ovarian masses occur at all age groups and consist of both functional and pathological lesions. Most functional lesions like follicular cyst and corpus luteal cysts resolve spontaneously (1). Pathological lesions of the ovary constitutes a complex area in gynecological practice which can be either benign, borderline or malignant which constitutes a high fatality rate [2]. The life time risk of ovarian cancer in a female range from 1.6% to 7% based on familial predisposition, which makes it as the most common cause of gynecological cancer related death and fourth most common cancer among females. Bimanual examination is the clinical method of assessing a pelvic lesion. Even imaging modalities like Ultrasound, CT, MRI at instances may fail to delineate a benign from a malignant lesion 10. Hence Histopathological examination of the resected specimen stands as a gold standard in categorizing the pathological ovarian lesion. Hence the present study was undertaken to evaluate the distribution of predominant histopathological patterns of ovarian lesions in various age groups and to assess the associated clinical and radiological findings.

Aims and Objectives

This study was aimed to find the histopathological pattern of ovarian lesions in different age group diagnosed in the pathology department of a tertiary care hospital over a 3 year period from June 2016-May 2019 and also to assess the associated clinical and radiological findings. We also aimed to compare our study findings with that of other studies in and out of the country.

Materials and Methods

It is a cross sectional study done for a period of 3 years from June 2016-May 2019 in the department of Pathology, in the patients undergone hysterectomy with bilateral salpingo oophorectomy for the ovarian lesions. This enabled us to study in detail the associated

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Clinical profile of hypoglycemiain type 2 diabetes mellitus patients

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I Introduction

Currently, we are experiencing an epidemic growth in the number of people with diabetes worldwide.
An estimated 366 million people, corresponding to 8.3% of the world's adult population, have diabetes today, but the prevalence is expected to grow to 552 million by 2030, corresponding to 9.9% of the adult population.
This increase goes hand in hand with "westernization" of lifestyle, with consumption of more energy-dense food and decreasing physical activity. Driven by this development, diabetes affects more and more young people.
These changes have driven a huge increase in T2DM—the most common form of diabetes, particularly in young people, especially in their working age. The medical burden is rising as patients with diabetes are developing a growing number of metabolic and cardiovascular comorbidities. The growing economic burden in complex socioeconomic structures becomes obvious. The continuation of the diabetes epidemic is predicted, and the World Economic Forum foresees the epidemic as a disaster likely to continue to worsen in the foreseeable future with a significant impact on global economic growth at least similar in scale to the recent burking crisis. The glycosylated hemoglobin goal according to ADA guidelines is below 7.0% but should be individualized based on factors such as age and life expectancy, co-morbid conditions, and hypoglycemia unawareness.

Exercising during the evening hours increases the risk of nocturnal hypoglycemia, which may occur up to 4 to 6 hours after an exercise bout. To decrease the likelihood of this response during the night (or day), the patient with diabetes may need to reduce his or her insulin dose or increase carbohydrate intake before or after exercise. Recognize the signs and symptoms of hypoglycemia. These include heart palpitations, confusion, weakness, and visual disturbances. If hypoglycemia is left untreated, it could lead to unconsciousness or convulsions. To reduce the likelihood of complications, patients with diabetes should always carry a form of fast-acting carbohydrate (e.g., juice, candy, and glucose tablets), exercise with a partner, and wear a diabetes identification tag. Monitor for symptoms of hyperglycemia. These include excessive thirst, frequent urination; blurred vision; itchy, dry skin, and a fruity odor or breathe. Hyperglycemia can lead to diabetic coma.

The parsait of strict glucose control is frequently hampered by concerns over hypoglycemia. Hypoglycemia requiring third-party assistance is common in the course of type 2 diabetes therapy and occurs with a frequency of approximately 35 episodes per 100 patient-years among insulin-treated patients. Hypoglycemia occurring during treatment has been associated with several adverse events, including increased mortality. In particular, the relationship between hypoglycemia and subsequent cardiac events warrants attention. There are a number of plausible mechanisms by which acute hypoglycemia may trigger ischemia, arrhythmia, and cardiovascular events. Hypoglycemia increases the levels of counter regulatory hormones, such as epinephrine and norepinephrine, which may induce increased cardiac rate and/ or contractility, heightening myocardial oxygen consumption, while also precipitating vasoconstriction and platelet aggregation. Acute hypoglycemia in the presence of hypokalemia prolongs cardiac repolarization, increases the QT interval, favoring a proarrhythmic state. One study of type 1 and type 2 diabetic patients who presented to the hospital with severe hypoglycemia documented frequent hypokalemia, QT prolongation, and severe hypertension during the hypoglycemic events.

Type 2 diabetes mellitus patients between age group 30-65 years admitted as in patients in SMVMCH with other associated factors are assessed for their hypoglycemic episodes and the frequency of hypoglycemia are correlated with other parameters. This study is mainly done in the view of "Hyperglycemia is a serious problem, Hypoglycemia is a fatal condition".

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Stuck Mitral Valve Thrombosis Presenting as Embolic Stroke Following Thrombolysis- A Case Report

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ABSTRACT

Prosthetic valve thrombosis is one of the major causes of primary valve failure, which can be life-threatening. Although surgery is the first-line treatment modality in symptomatic Prosthetic valve thrombosis, thrombolytic therapy has recently evolved as an effective substitute to surgery. Cerebral embolism can occur in 5-6% of left sided valve thrombus and this is a case of Prosthetic mitral valve thrombosis presenting as acute ischaemic stroke after Thrombolysis due to Thromboembolism.

Keywords: Prosthetic valve Thrombosis, Thrombo-embolism, Acute Ischaemic Stroke

INTRODUCTION

Prosthetic valve thrombosis (PVT) is a rare but serious complication of valve replacement, most often encountered with Mechanical prosthesis. (2) PVT is an obstruction of a prosthesis by noninfective thrombotic material. The most common cause of PVT is inadequate anticoagulant therapy. Unfortunately, vitamin K. antagonists are still the only approved oral anticoagulants in patients with heart valve prostheses. Even with the use of Vitamin K. Antagonists, the risk of thromboembolism is 1%-2% per year, but the risk is considerably higher without or inadequate treatment with warfarin.[3] Significant morbidity and mortality associated with this condition warrants rapid diagnostic tests. The different therapeutic modalities available for Prosthetic Valve Thrombosis (Heparin treatment, fibrinolysis, surgery) will be largely influenced by the presence of valvular obstruction, by valve location (Left- or right-sided), and by clinical status.^[2]

CASE REPORT

This is a case of 23 years old female who is a K/C/O Mitral valve prolapse for which Mitral valve replacement (St. Jude's valve) done, 4 years ago, presented with chief complaints of difficulty in breathing for 3 days, Class III-IV NYHA, with orthopnea and history of cough with Expectoration. No history of fever, chest pain, limb swelling present. She was on irregular Oral anticoagulation medications. other comorbidities. examination was normal Vitals - Pulse Rate- 110 bpm, BP- 80/50mmHg, RR-32/min, SPO2- 92% at Room Air. Cardiovascular system examination - \$1, \$2 heard and Valve click not heard in mitral area. Respiratory system examination revealed Fine end Inspiratory Crepitations in Bilateral Infra-Axillary and Infra-Scapular areas. Central nervous System revealed No Focal Neurological deficit. Abdomen examination - Soft, non-tender, No organomegaly.

Investigations showed PT INR value of 1.5. Chest X-ray revealed Cardiomegaly with ill defined homogenous opacities present in Bilateral lung fields(figl-thin

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Hodgkin's Lymphoma Presenting as Paraplegia: A Case Report

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ABSTRACT

Hodgkin's lymphoma is a malignancy of mature B lymphocytes which has Bimodal distribution of age at diagnosis and presents as palpable, non-tender lymphadenopathy. Neurological manifestations are rare complication of Hodgkin's disease (0.2%) and this is a case of Hodgkin's lymphoma which presented primarily with paraplegia as a neurological deficit caused by spinal cord compression.

Keywords: Hodgkin's lymphoma, paraplegia, neurological deficit.

INTRODUCTION

Hodgkin's lymphoma (HL) is a malignancy of mature B lymphocytes and represents 10% of all lymphomas diagnosed each year. The majority of HL diagnosis is classical HL (cHL). A bimodal distribution of age at diagnosis has been observed, with one peak incidence occurring in patients in their twenties and the other in those in their eighties. Most patients with cHL presents with palpable lymphadenopathy that is nontender in most of the patients, these lymph nodes are in neck, supraclavicular area and axilla. More than half of the patients will have mediastinal adenopathy at diagnosis, and this is sometimes the initial manifestation. Subdiaphragmatic presentation of cHL is unusual and more common in older males.[1]

HL is predominantly a disease of the lymph nodes although extranodal sites of disease may be present in 10% of cases. Direct neurologic dysfunction results from intracranial metastases, metastases to the epidural space of the spinal cord with resultant spinal cord or nerve root compression, metastatic leptomeningeal disease, and intramedullary spinal cord metastases. [2]

CASE REPORT

This is a case of a 46 year old male who was apparently healthy 6 month back and then he developed low back ache which was dragging type, intermittent, aggravated on prolonged standing and relieved by taking rest. Then he developed difficulty in walking, initially he had difficulty in using left leg for walking climbing stairs getting up from squatting position which gradually involved right leg also in a duration of one month. Patient had no involvement of upper limb. The symptoms worsened in next 10 days after which he had decreased sensation of both the lower limb and became completely bedridden. History of walking over cotton wool like sensation present. History of band like sensation around the hip was present. On examinations positive finding were multiple cervical non-tender and non matted lymphadenopathy, bilateral decreased of lower limb with power grading of 0/5, absent abdominal and cremasteric reflex and bilateral extensor Babinski response. The crude touch, pain and temperature where decreased below the level of umbilicus, and absent sensation in perianal region and tenderness over spine in thoracolumbar region.

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A Deviant Manifestation of Sarcoidosis: Bilateral Inguinal Lymphadenopathy

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ABSTRACT

Background: Sarcoidosis is a systemic granulomatous disorder, characterized by involvement of multisystem, frequently involves pulmonary system. Sarcoidosis can have varied presentations. The clinical presentation of sarcoidosis ranges from asymptomatic to organ failure. It is unclear how often sarcoidosis is asymptomatic. Lymph node involvement is found rarely in isolation.

Case Report: A 63-year-old asymptomatic male presented with bilateral pelvic and inguinal lymphadenopathy. An ultrasonogram scan of the abdomen, and pelvis revealed bilateral deep pelvic and inguinal bulky lymphadenopathy. Excision biopsy revealed sarcoidosis. He responded to six months of oral steroid treatment.

Conclusion: This case illustrates the different presentation of sarcoidosis and the difficulty in diagnosing sarcoidosis in its initial stages. A high suspicion and excision biopsy is the key in diagnosing this condition.

Keywords: Sarcoidosis, Lymph nodes, Biopsy

INTRODUCTION

Sarcoidosis is a global disease of unknown etiology. It is an inflammatory disease characterized by the presence of non caseating granuloma with varied presentations thus leading to confusion whether asymptomatic individuals with suspected diagnosis of sarcoidosis should be investigated further. This disease is often multisystem and requires the presence of involvement in two or more organs for the specific diagnosis. The clinical presentation

of sarcoidosis varies from asymptomatic to complicated sarcoidosis. Respiratory involvement (> 90 %) is most common¹, but it is non specific in nature with non specific constitutional symptoms. Typical pulmonary manifestations are easily identified.

The typical manifestations of this include bilateral disease lymphadenopathy and pulmonary reticular opacities2. The clinical presentation of sarcoidosis depends as age, sex, and race, the duration of the disease and the sites of involvement. Frequency of common organ involvement is lung (90%), skin (24%), eye (12%), extra thoracic lymphnode (15%), liver (12%), Spleen (7%), neurological (5%), cardiac (2%) with Constitutional symptoms like fatigue, fever, night sweats loss1. and weight Diagnosis of asymptomatic presentations in sarcoidosis remains a challenge as it can influence prognosis.

CASE REPORT

A 63 year old male presented with swelling over the bilateral inguinal region since 3 months, multiple in number and was non tender, non discharging. History of yellowish discolouration of urine for 7 days, 2 months back. For which patient took native treatment. History of generalized fatiguability and weight loss present. Besides he was a smoker and quitted smoking 3 years back.

The vital signs were stable. In physical examination three non tender

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A Study of Effect of Anemia over HbA1C Level in Non-Diabetic Patients in a Tertiary Care Hospital in Puducherry

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ABSTRACT

HbAlc assay is as an accurate and precise measure of chronic glycemic levels as it correlates well with the risk of diabetes complications for the same reason it is recommended to rely on HbAlc for diagnosing diabetes. [2] Falsely elevated HbAlc concentrations are encountered when there is increased circulating erythrocyte life span (decreased red cell clearance) or impaired reticulocyte production. [9] Anemia is most common factor in Indian population affecting the level of HbAlC. Therefore it's necessary to know whether anemia due to any etiology will affect the level of HbAlC level in non-diabetic

Keywords: Anomia, HbA1C

INTRODUCTION

Hemoglobin AlC (HbAlc) is the predominant hemoglobin found in HbAl fractions and it constitutes 5% of the total hemoglobin in normal adults and up to 15% in patients with diabetes mellitus (1). Hgb A to HbAlc conversion takes place during the entire life span of the red blood cell and the rate of this reaction is faster in diabetics because of the higher prevailing glucose concentration, resulting in a higher concentration of HbAlc. Red blood cells (RBC) are freely permeable to the plasma glucose molecules, and hemoglobin is practically exposed to the same glucose concentrations as plasma. Therefore, HbAlc

level is directly proportional to average blood glucose concentration over the previous 4weeks to 3 months or the average lifespan of the erythrocyte.

There are a number of methods available to estimate glycated hemoglobin like immunoturbidimetry, ion exchange high-performance liquid chromatography (HPLC), boronate affinity, and enzymatic method. HbAlc assay is as an accurate and precise measure of chronic glycemic levels as it correlates well with the risk of diabetes complications for the same reason it is recommended to rely on HbAlc for diagnosing diabetes [2]. Despite its benefit, HbAlc is affected by a variety of genetic, physiological, hematological and illness related factors.

Falsely elevated HbA1c concentrations are encountered when there is increased circulating erythrocyte life span (decreased red cell clearance) or impaired reticulocyte production [3]. Out of these factors affecting the level of HbAlC, most common entity in Indian population is anemia out of which most common type iron deficiency anemia has showed impact in HbA1C value in non diabetic individuals

Therefore it's necessary to know whether anemia due to any etiology will affect the level of HbAlC level in nondiabetic patients for whom accurate analysis of glycemic status is necessary. So this study was done to estimate the HbA1C level

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The Study of Serum Gamma Glutamyl Transferase Level in Patients with Metabolic Syndrome

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ABSTRACT

Gamma Glutamyl Transferase (GGT) belongs to Transferace enzymes. It is used as a diagnostic marker for liver disease. Gamma Glutamyl Transferase was found to elevated in Metabolic Syndrome patients along with mildly elevated liver enzymes to the upper limit. The aim is to study the level of Serum Gamma Glutamyl Transferase in Metabolic Syndrome patients and to analyse for any association between serum GGT levels and parameters of Metabolic Syndrome. The study population is of 114 who are diagnosed as Metabolic Syndrome. Waist circumference, Body Mass Index (BMI), blood pressure, lipid profile, liver function test, fasting blood glucose of the subjects were recorded. Mean serum Gamma Glutamyl Transferase was 92.7 ± 52.5. An elevated GGT was found to be associated with Metabolic Syndrome subjects. Also there was a positive correlation between GGT and waist Circumference, triglycerides, erythrocyte sedimentation rate, liver function

Xey words: Gamma Glutamyl Transferase, metabolic syndrome, waist circumference, triglycerides.

INTRODUCTION

The Metabolic Syndrome is a group of metabolic abnormalities that confers increased risk of cardiovascular diseases and diabetes mellitus. The major features of the metabolic syndrome include central obesity, hypertriglyceridemia, low high-density lipoprotein, cholesterol, hyperglycemia, and hypertension. The raise in the prevalence of obesity in India is threatening to increase the burden of

Atherosclerotic cardiovascular disease (ASCVD).

The prevalence of metabolic syndrome worldwide is 20-25%. 23 There has been a consistent effort to evaluate biochemical markers to predict an early onset of Metabolic Syndrome and subsequently intervene appropriately by means of lifestyle changes and drug therapy and thereby reduce cardiovascular morbidity and mortality. Studies are lacking in the adult Indian population.

Markers like adiponectin have been studied as a measure of increased adipose but have not proven to be cost effective and easily available. Clearly a cost effective and easily available marker is required to predict an early onset of this syndrome. Gamma Glutamyl Transferase (GGT) is one such marker which is cost effective, easily available High levels of GGT have been associated in populations with increased risk of Atherosclerotic cardiovascular diseases (ASCVD) 2.6. Several prospective studies reported that baseline serum GGT concentration was an independent risk factor for the development of coronary artery disease (CAD), diabetes mellitus, stroke and hypertension. The purpose of this study is to evaluate the utility of GGT as an early marker in Metabolic Syndrome.

Objective

 To study the level of Serum Gamma Glutamyl Transferase in Metabolic Syndrome patients.

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A Clinical Profile of Stroke in Tertiary Care Centre

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ABSTRACT

Background: Cerebrovascular disease (CVD) is the third leading cause of death after heart disease and cancer in developed countries and is now emerging as the commonest preventable life-threatening neurological problem worldwide. It makes an important contribution to morbidity and mortality in developed as well as developing countries.

Aims: 1.To determine the age, gender distribution, risk factors and pattern of areas of brain affected in stroke patients in tertiary care centre.

Methodology: 50 patients with acute stroke were selected based on inclusion and exclusion criteria. After getting consent from the patient appropriate questionnaire was used to collect the data of patients. Diagnosis of stroke was confirmed by CT or MRI scan of brain.

Results: Totally 50 patients of acute stroke were included in our study, majority of the patients are males 35 (70%), and females are 15(30%). Approximately 36% were in the age group of 51-60 years. In this study ischemic stroke was seen in 45 (90%) of the patients and 5 (10%) had hemorrhagic stroke. Out of 50 patients 23 (46%) had diabetes mellitus and 26 (54%) had hypertension. Heart disease was present only in 16% of the patients. The mean duration of both diabetes and hypertension were 5 years. In this study 38% of the patients had high triglycerides, and 30% had had high VLDL. Anterior circulation stroke was more common 74% than posterior circulation and lacunar stroke.

Conclusion: In this present study stroke was more common in the age group of 51-60 years with male are most commonly affected. Dyslipidemia in the form of high triglycerides and high VLDL levels was the most common risk factor which was followed by hypertension. Most of the patients presented as ischemic stroke. Anterior circulation stroke was more common than posterior circulation stroke.

Keywords: Cerebrovascular accident, Stroke profile

INTRODUCTION

The word "stroke" was first introduced into the medicine by William core in 1689 before this non-traumatic brain injury was called as apoplexy. Stroke or CVA, by WHO definition is a "rapidly developing clinical symptoms and/or signs of focal neurological deficit and at times global loss of cerebral function (coma) lasting longer than 24 hrs or leading to death with no apparent cause other than vascular origin. TIA(Transient ischemic attack) defined as symptoms and signs which resolves within 24 hours without evidence of brain infarction on brain imaging.5 Stroke is due to cerebral infarction, primary haemorrhage intracerebral intraventricular haemorrhage (TVH), and subarachnoid haemorrhage (SAH). excludes infarction caused by infection. tumour, subdural haemorrhage, and other intracranial haemorrhage. Among all strokes 80% is due to ischemic and remaining 20% being the haemorrhagic stroke. Ischemic stroke is due to decreased blood supply to the focal area of brain due to infarction. Haemorrhagic stroke is the leakage of blood in the closed cavity is due to trauma and hypertension.6 Stroke is an emerging important health problem in our society. After Acute Myocardial Infarction (MI) and

> SRI MANAKULA VINAYAGAR MEDICAL COLLEGE & HOSF. 'AL KALITHEERTHALKUPPAM, PUDUCHERRY-605107.

Association of Platelet Count/Spleen Size Ratio in Relation with Grades of Esophageal Varices and Severity of Chronic Liver Disease

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ABSTRACT

Background: Most serious complication of portal hypertension in patients with liver diseases is esophageal varices. This study was conducted to evaluate non-invasive predictors of large esophageal varices in comparison with small or absent varices in patient with cirrhosis.

Objective: To assess the association of platelet count/spleen size ratio in relation with severity of varices and to compare with Child Pugh's score of chronic liver disease.

Methodology: A Hospital based cross section study was conducted in Department of General Medicine and Gastroenterology. The study population is of 90 who were diagnosed to have chronic liver disease based of ultrasonogram and biochemical test.

Results: Incidence of large varices was seen in 34.4%. Onmultivariate analysis, only spleen diameter is independent predictors for the presence of large varices with mean size of 14.2cm. The sensitivity of PC/SD Ratio of ≤ 909 in predicting presence of esophageal varices in our study was 61.29 and specificity was 61.02%. However, the mean PC/SD to predict the large esophageal varices in our study was ≤ 962.3 and small and absent varices was 1172.7. Although there is significant reduction in PC/SD ratio between the two groups it was not statistically significant.

Conclusion: From our study we conclude that presence of splenomegaly and lower PC/SD ratio determine the presence of higher grades of varices and can hence identify the patients who require endoscopy for the prophylactic management of esophageal varices. Key words: platelet count/spleen size ratio, esophageal varices, Child Pugh's score, chronic liver disease

INTRODUCTION

Portal hypertension is the most common and deadly complication of chronic liver disease. As the consequence, Gastro esophageal varices, ascites, hepatic encephalopathy, hepatorenal syndrome, hepatopulmonary syndrome hypersplenism can develop. hypertension is associated with increase in hepatic venous pressure gradient to >5mmHg and is considered as the major complication of cirrhosis. complication of portal hypertension is variceal bleed which is associated with high mortality, 60-80% of cirrhotic liver patients has varices with 25-35% of bleeding risk.2

The best way to detect varices is endoscopic evaluation of upper GI system. However, inconvenience, patient intolerance, contraindication, cost and lack of equipment justifies the need for development of noninvasive methods. Noninvasive method among them is platelet count/spleen diameter ratio which showed high sensitivity for prediction of large varices. Overall, large spleen size, low platelet count, or their combination (platelet count to spleen diameter ratio), fibro scan, portal vein size or presence of collaterals on ultrasound, hypersplenism and Child Pugh.

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Prevalence of Spontaneous Ascitic Fluid Infection and its Microbiological Profile in Decompensated Cirrhotic Liver Disease Patients in a Tertiary Health Care Hospital in Puducherry

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Corresponding Author: Swapna U.S.

ABSTRACT

Background: Spontaneous ascitic fluid infection (SAI) is common in cirrhotic patients. Third-generation cephalosporins are currently recommended as first-line therapy. We conducted a study to determine bacterial etiology, susceptibility patterns.

Objective: To estimate the prevalence of spontaneous ascitic fluid infection in cirrhotic decompensated liver disease patients, and to analyse microbiological profile in cirrhotic ascites.

Method: We prospectively collected clinical data and laboratory values. Diagnostic paracentesis was performed in all patients of decompensated cirrhotic liver disease with ascites to investigate the presence of SAI.

Result: Among total 45 patients the leading cause of cirrhosis was alcohol consumption. SAI was diagnosed in 27 patients (60%). Of these, 19 patients (70 %) had culture negative nentrocytic ascites (CNNA), 5 (18.5%) had Spontaneous bacterial peritonitis (SBP), and 3 (11.1%) had mono microbial non neutrocytic bacterascites (MNB). CNNA and SBP did not differ in terms of clinical characteristics. Organisms found are - two Streptococci and two coagulase negative staphylococci, two E. coli, one klebsiella pneumonia, one candida growth. Gram positive cocci (50%) were predominant among culture positive SAL gram negative bacilli (37.5%), fungus (12.5%). Among the commonly used antibiotics higher resistance rate was found with cephalosperins (71.4%) and most sensitive antibiotics found to be

carbapenems, linezolid, vancomycin (85%), then amino glycosides and tetracycline (71%)

Keywords: SAI, Ascitic fluid culture, Antibiotic sensitivity

I. INTRODUCTION

Spontaneous ascitic fluid infection (SAI) is common in cirrhotic patients leading to significant mortality and morbidity. Spontaneous ascitic fluid infection (SAI) has three subtypes ;SBP (spontaneous bacterial peritonitis) is established by an elevated ascitic fluid polymorphonuclear leukocyte (PMNL) count >250 cells/mm3 and a positive ascitic fluid bacterial culture ;Culture-negative neutrocytic ascites (CNNA), which is considered to be a variant of SBP, is diagnosed by elevated ascitic fluid PMNL count >250 cells/mm3 with a negative ascitic fluid culture; diagnosis of mono microbial non-neutrocytic bacterascites (MNB) include a positive ascitic fluid culture for a single organism and ascitic fluid PMNL count < 250 cells/mm3.

Spontaneous bacterial peritonitis (SBP) is a frequent and severe complication in cirrhotic patients with ascites and its prevalence ranges from 10% to 25% in hospitalized cirrhotic patients .SBP is the most frequent bacterial infection in cirrhotic patients, followed by urinary tract infection, pneumonia, skin and soft tissue infections,

International Journal of Research and Review (ijirjournal.com) Vol.7; Issue 12; December 2020 Dr. KAGNE. R.N

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Prevalence of Cirrhotic Cardiomyopathy and Correlation with Child-Pugh Score

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ABSTRACT

Background: The deterioration of cardiac function in patients with liver cirrhosis has been a great debate for past two decades. A newer entity called "Cirrhotic Cardiomyopathy" has been described which includes a variety of features like QT prolongation, systelic and diastolic dysfunction. This is of extreme importance since cardiac function plays a major role in mortality and morbidity of the patient.

Aim: To assess the prevalence of cirrhotic cardiomyopathy and to assess its correlation with Child Pugh score.

Methodology: A hospital based cross sectional study was conducted in department of general medicine and department of gastroenterology. The study period was one and a half years after obtaining approval from the ethical committee. The study population was 93 and the patients admitted in general medicine and gastroenterology were enrolled for the study.

Results: 44.4% patients were in age group 31-45, 69% had abdominal distension as chief complaint, 77.4% patients were alcoholics. 61.3% of patients had features of liver cell failure and 54.8% were in hepatic encephalopathy, 45.2% patients were under Child B and 45.2% under Child C. 77% of had features of cardiomyopathy of which 49.9% were child C. 56% patients had diastolic dysfunction. Systolic dysfunction was found in 30.1% patient which had a statistical significance of 0.02. While comparing with Child Pugh score diastolic dysfunction was significant with a p value of 0.035 considering the variables taken in the study Albumin and INR values were statistically

significant with a p value of 0.038 and 0.043 respectively.

Conclusion: Our study showed a staggering rise in the presence of cirrhotic cardiomyopathy in patients with end stage liver disease when compared to previous studies. Presence of systolic dysfunction was statistically significant, whereas on correlating with Child Pugh score only diastolic dysfunction was significant.

Keywords: cirrhotic cardiomyopathy, liver cirrhosis, Child Pugh score

INTRODUCTION

Chronic liver disease is a pathological entity which is associated with a spectrum of clinical manifestations. Cirrhosis is the end result of all chronic liver disease. Interactions between the functions of the heart and the liver have been described, with liver diseases affecting the heart, heart diseases affecting the liver, and conditions that simultaneously affect both. Results of experimental and clinical studies shown impaired contractility as well as electrophysiological abnormalities in patients with cirrhosis 1. Alcohol being one of the most common causes of liver cirrhosis can itself cause cardiomyopathy, which is termed as "Alcoholic cardiomyopathy". abnormalities were initially thought to be a manifestation of alcoholic cardiomyopathy. But in the mid 1980's, studies in nonalcoholic patients and in experimental animal models showed a similar pattern of

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Prevalence of Spontaneous Ascitic Fluid Infection and its Microbiological Profile in Decompensated Cirrhotic Liver Disease Patients in a Tertiary Health Care Hospital in Puducherry

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Background: Spontaneous ascitic fluid infection (SAI) is common in cirrhotic patients. Third-generation cephalosporins are currently recommended as first-line therapy. We conducted a study to determine bacterial etiology, susceptibility patterns.

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Method: We prospectively collected clinical data and laboratory values. Diagnostic paracentesis was performed in all patients of decompensated cirrhotic liver disease with ascites to investigate the presence of SAI.

Result: Among total 45 patients the leading cause of cirrhosis was alcohol consumption. SAI was diagnosed in 27 patients (60%). Of these, 19 patients (70 %) had culture negative nentrocytic ascites (CNNA), 5 (18.5%) had Spontaneous bacterial peritonitis (SBP), and 3 (11.1%) had mono microbial non neutrocytic bacterascites (MNB). CNNA and SBP did not differ in terms of clinical characteristics. Organisms found are - two Streptococci and two coagulase negative staphylococci, two E. coli, one klebsiella pneumonia, one candida growth. Gram positive cocci (50%) were predominant among culture positive SAI, gram negative bacilli (37.5%), fungus (12.5%). Among the commonly used antibiotics higher resistance rate was found with cephalosporins (71.4%) and most sensitive antibiotics found to be carbapenems, linezolid, vancomycin (85%), then amino glycosides and tetracycline (71%)

Keywords: SAL Ascitic fluid culture, Antibiotic sensitivity

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Spontaneous bacterial peritonitis (SBP) is a frequent and severe complication in currhotic patients with ascites and its prevalence ranges from 10% to 25% in hospitalized cirrhotic patients SBP is the most frequent bacterial infection in cirrhotic patients, followed by urinary tract infection, pneumonia, skin and soft tissue infections,

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International Journal of Research and Review (ijrrjournal.com) Vol.7; Issue: 12; December 2020

An Interesting Case of Bilateral Upper Limb Wasting: Hirayama Disease

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Health Allied Sci 14:2021;11:40-43

Abstract

Keywords

- Hirayama disease
- dynamic MRI
- motor neuron disease

Hirayama disease is a rare neurologic disease and is characterized by insidious unilateral or bilateral muscular atrophy and weakness of the forearms and hands without sensory or pyramidal signs. Our patient presented with bilateral upper limb wasting, which is a rarer variant of motor neuron disease. The diagnosis of Hirayama disease is based on dynamic magnetic resonance imaging (MRI). This case displays how dynamic cervical spine MRI can pick up dynamic cord compression and contributes to zero in the diagnosis of Hirayama disease.

Introduction

Hirayama disease is a rare neurological disease and is characterized by insidious unilateral or bilateral muscular atrophy and weakness of the forearms and hands without sensory or pyramidal signs. The disease primarily affects men in the second or third decades of life. The disease progresses initially, but spontaneous arrest is known to follow several years after the onset.

Case Report

History and Examination

A 20-year-old male presented with complaints of insidious onset symmetric weakness of hands due to lifting heavy objects for 7 months. It progressed to reduced dexterity, with difficulty in mixing food, buttoning of clothes, and combing hair. Furthermore, he noted wasting of muscles and clawing of fingers for last the 4 months (-Fig. 1). There was no history suggestive of involvement of higher mental function, cranial nerves, lower limbs, bowel and bladder, or sensory system. There were also no other known comorbidities.

On examination, the patient had weakness involving both hands, with a handgrip of 60% and impaired abduction and adduction of the digits and opposition of the thumb, with wasting and fasciculation. All other reflexes were normal. Powers of arm and forearm muscles were

published online October 16, 2020 DOI https://doi.org/ 10.1055/s-0040-1718237 ISSN 2582-4287. normal. Sensations were intact. There was no evidence of involvement of the pyramidal, spinothalamic, posterior column lesions, polyminimyoclonus, or autonomic disturbances. The patient was provisionally diagnosed with bilateral upper limb distal wasting under evaluation, and work-up for cervical spine pathology, predominant motor neuropathy, and distal myopathy was considered along with possibility of motor neuron disease (MND) variant.

Investigation

- Blood investigations such as complete blood count, sedimentation rate, and renal, liver, and thyroid function tests were within normal limits, including creatine phosphokinase levels.
- Magnetic resonance imaging (MRI) cervical spine: loss of cervical lordosis. In the neutral position, there is asymmetrical focal cervical cord flattening noted from C5-C7.
 On flexion MRI, there is anterior displacement of the cervical cord, with cord and spinal canal compression noted from C5 to C7 level (~Fig. 2). Anterior shift of the posterior dura with T2-weighted image (T2WI) and short tau inversion recovery (STIR) (~Fig. 3) hyperintense collection is noted in the epidural space for an approximate length of 12 cm with a maximum thickness of 8 mm with few curvilinear large T2WI flow voids noted within, representing epidural venous engorgement (~Fig. 4).

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Drug-Induced Lupus Erythematosus Associated with **Proton Pump Inhibitor**

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| Health Allied Sci #52020;10:132-134

Abstract

Keywords

- drug-induced lupus
- pantoprazole
- proton pump inhibitors

Drug-induced lupus erythematosus is an autoimmune phenomenon where the drug exposure leads to the development of systemic lupus erythematous like clinical features. Drug-induced lupus erythematosus can be divided into systemic lupus erythematous, subacute cutaneous lupus erythematous, and chronic cutaneous lupus erythematous. Here, we report a case of a 29-year-old female presented with systemic lupus erythematous due to chronic use of proton pump inhibitors, which is considered to be very rare.

Introduction

Drug-induced lupus erythematosus (DLE) is a rare adverse reaction to a large variety of drugs with features resembling those of idiopathic systemic lupus erythematosus (SLE). It comprises up to 10% of new lupus cases annually.1 The first case described in 1995 was associated with treatment with sulfadiazine? since then more than 90 drugs have been related. to DLE and the number is continuously increasing. Recently proton pump inhibitors (PPIs) have been found to be associated with DLE.1 The presentation is vague and needs a high index of suspicion resulting in a costly workup. Given that the prognosis is usually good if therapy with offending drug is stopped, it is important to identify this clinical entity promptly.

Case Report

A 29-year-old female patient was admitted to our department with 2 months history of pain in small joints of both upper limb, multiple skin lesions, and painless ulcers on oral cavity. On examination, prominent annular nonscarring erythema was present on the thigh, knees (- Fig. 1), and extensor surface of elbow (- Fig. 2). No other abnormalities were found on physical examination except for tenderness in the metacarpophalangeal joints of bilateral upper limbs and a painless ulcer over the palate (- Fig. 3). Routine investigations were conducted, including a complete blood count,

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renal function test, urine examination. Since she is a young female in the early reproductive age group, she was screened for connective tissue disorders. The laboratory investigations revealed normal hemogram, liver and kidney function test, and serum electrolytes. Rheumatoid factor was negative. Antinudear antibody (ANA), antihistone antibody, and antidsDNA were positive. Above findings along with lack of systemic involvement raised the suspicion of drug-induced SLE; on further probing of history, we found that she was using pantoprazole tablet for the past 6 months for gastroesophageal reflux disease before her skin lesions appeared. She had no other concomitant diseases and did not take any other drug. She was diagnosed to have drug-induced SLE. The drug was discontinued and tab. hydroxychloroquine 200 mg twice daily and prednisone 0.5 mg/kg/day was started. The therapy was continued for 4 weeks and then the corticosteroid dose was tapered. Complete dearance of skin lesions was noted within 4 weeks of the treatment even the pain over the joints and oral ulcers had healed

Discussion

DLE is a lupus-like syndrome temporally related to continuous drug exposure that resolves upon drug discontinuation. There are currently no standard diagnostic criteria for DLE. Findings include skin manifestations, arthritis, serositis, antinuclear, and antihistone antibodies positivity.1 Similarly to

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Case Report 101

A Rare Case of Myocardial Infarction with Nonobstructive Coronary Arteries Due to Hereditary Thrombophilia

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J Health Allied Sci 85,2021;11:101-103

Abstract

Keywords

- MINOCA
- thrombophilla
- protein C and protein 5 deficiency
- anticoagulants
- recurrence of events

The Incidence of acute myocardial infarction with nonobstructive coronary arteries in young age less than 20 years in India due to hereditary thrombophilia is uncommon. Combined protein S and protein C deficiency has an increased tendency for coronary artery thrombosis in very young individuals. Acute myocardial infarction in young individuals has different risk factors profile, clinical presentation, and prognosis when compared with elderly population and hence incites the need for different approach In the management. Here we report a case of 17-year-old boy who presented with acute inferior wall myocardial infarction with nonobstructive coronary arteries due to hereditary protein C and protein S deficiency.

Introduction

Coronary artery diseases are considered to be one of the leading causes of mortality and disability in adults worldwide. Acute myocardial infarction in very young patients less than 35 years of age is estimated to be less than 2%. In India there is a rise in the number of young patients with myocardial infarction, where majority of people lack the conventional

Young adults with no evidence of atherosclerosis and no major risk factors should be evaluated for deficiency of major anticoagulant proteins especially protein C and protein S. The patients with myocardial infarction should be started on lifelong systemic anticoagulants to prevent the recurrence of events.

Case Report

A previously healthy 17-year-old boy presented to the emergency department with complaints of recurrent vomiting

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and epigastric pain associated with palpitation and giddiness for 1 hour. He was conscious, oriented with normal Glasgow Coma Scale. His blood pressure was 100/60 mm Hg, heart rate of 88 per minute, saturation was 100% at room air. His cardiovascular clinical examination was found to be normal.

A standard 12 lead electrocardiogram (ECG) showed ST segment elevation of more than 2 mm in lead II, III, aVF suggestive of inferior wall myocardial infarction (-Fig. 1) with no extension in right ventricular and posterior wall which was confirmed by taking right-sided and posterior ECG. Basic investigations were found to be normal. The two-dimensional (2D) echocardiogram showed an adequate LV function with mild hypokinesia of inferior wall. He was immediately thrombolyzed with injection Tenecteplase (recombinant tissue plasminogen activator), after thrombolysis he symptomatically improved with resolution of ST segment elevation indicating successful thrombolysis. CK-MB (creatine kinase myocardial band) was elevated, and troponin I was found to be positive.

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Food safety and hospital managemen

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Review Article

Indian J Med Res 138, December 2013, pp 847-852

Climate change & infectious diseases in India: Implications for health care providers

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Climate change has the potential to influence the earth's biological systems, however, its effects on human health are not well defined. Developing nations with limited resources are expected to face a host of health effects due to climate change, including vector-borne and water-borne diseases such as malaria, cholera, and dengue. This article reviews common and prevalent infectious diseases in India, their links to climate change, and how health care providers might discuss preventive health care strategies with their patients.

Key word: Climate change - human health - India - vector-borne disease - water-borne disease

Introduction

Infectious disease distribution involves complex social and demographic factors. These include human population density and behaviour, housing type and location, water supply, sewage and waste management systems, land use and irrigation systems, availability and use of vector control programmes, access to health care, and general environmental hygiene. Meteorological factors that influence transmission intensity of infectious diseases include temperature, humidity, and rainfall patterns. Social and demographic factors such as population growth, urbanization, immigration, changes in land use and agricultural practices, deforestation, international travel, and breakdown in public health services have been mainly responsible for the recent resurgence of infectious

diseases. The Intergovernmental Panel on Climate Change noted in its 2007 report that climate change may contribute to expanding risk areas for infectious diseases such as dengue and may increase the burden of diarrhoeal diseases, putting more people at risk?

Global climate change is a phenomenon that is now considered strongly associated with human activities. Atmospheric carbon dioxide levels, which have remained steady at 180-220 ppm for the past 420,000 years, are now close to 370 ppm and rising! Due to improvements in meteorology, we are now able to better understand long-term changes in climate. Such understanding might enable the prediction of where and when infectious disease outbreaks may occur. Box 1 outlines some of the consequences of climate change that clinicians in India could expect to see over

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Wonder drug for worms: A review of three decades of ivermectin use in dermatology

Sarayanan Gowtham, Kaliaperumal Karthikeyan

Introduction

Ivermectin has evolved over the last three decades from being a veterinary "blockbuster" drug to a panacea for nematodal infestation and ectoparasitic diseases in humans.\textsuperscript{This oral drug has breathed fresh life in the management of ectoparasitic infections which was conventionally based only on topical medications. In this review, we discuss the intriguing journey of this drug in dermatology.

History of Ivermectin

Structure of Ivermectin

The structure of ivermectin is shown in Figure 1. The molecular formula of ivermectin is C_aH_aO_{cc}⁴

Pharmacokinetics

In humans, the oral route is the only approved route for administration of ivermectin, and it is usually recommended

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to be taken on an empty stomach with water. In the skin, the peak concentration of the drug was noted 8 h after a 12-mg oral dose, whereas the peak serum level is reached in 4 h after administration. Between 6 and 12 h after the dose, a second peak occurs due to enterohepatic recycling of the drug. It is extensively metabolized by cytochrome P450 and is excreted almost exclusively in feces. The half-life of the drug is around 18 h, and the anti-parasitic activity lasts for several months after a single dose.

Mechanism of Action

Ivermectin is an endectocide, which selectively binds to glutamate-gated chloride channels in invertebrates. This causes hyperpolarization of parasite neurons and muscles by increasing chloride ion influx, ultimately resulting in death of the parasite. It acts on endoparasites and ectoparasites by suppressing the nerve impulse conduction in intermediary neurons or in nerve-muscle synapses, respectively. Due to the localization of these channels in the central nervous system and inability of ivermectin to cross the blood-brain barrier, humans are not affected except those with a history of undergoing shunt surgeries.

Indications in Dermatology

The indications for ivermectin use in dermatology are summarized in Table 1.

Soabies

Ivermectin is the only recommended oral medication for scabies.* Two doses of oral ivermectin are given 7 days apart, to act on newly hatched scabietic nymph. In severe or resistant cases, it is often combined with topical medications like permethrin.* Two doses of topical ivermectin were also found to be as effective as two applications of permethrin.*

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Hepatocellular Carcinoma with Bi-atrial invasion

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Abstract

Hepatocellular carcinoma (HCC) is the most common primary tumor of the liver. The Right heart is affected in up to 2% of metastatic HCC cases. However this was the first case of HCC to be reported with bi-atrial involvement. CECT showed Multifocal HCC in right lobe of liver with tumour thrombus extending along right portal vein, right hepatic vein into IVC and right atrium and extending across the atrial septum into left atrium via sinus venosus ASD. Intracardiac involvement has got very poor prognosis.

Introduction

Hepatocellular carcinoma (HCC) is the fifth most common cancer in the world and the third most common cause of cancer death¹. It is the most common primary tumour of the liver. Although HCC usually metastasizes to regional lymph nodes, lung, or bones, it can also invade major local blood vessels and rarely the heart. Metastasis to heart can occur via blood stream or direct invasion of IVC². For such metastatic disease only chemotherapy or supportive measures alone can be tried.

Case report

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A 60 Year old male who was a chronic alcoholic presented with swelling of both legs followed by abdomen distension with of yellowish discolouration of urine and eyes which was for a duration of 14 days. He was a chronic alcoholic and smoker for 30 years. Similar complaints were present one year back. On general examination patient was malnourished with icterus and bilateral pitting pedal edema. Abdomen

examination showed dilated veins over abdomen and back with flow below upwards, tender hepatomegaly and fluid thrill. Blood investigations revealed deranged LFT and Hepatitis B positive. Ascitic fluid analysis revealed a high serum-ascitis albumin gradient (SAAG) and low protein and cytopathology study showed atypical cells. USG abdomen showed multiple ill-defined hyperechoic lesions in liver with coarse echotexture. Echocardiogram revealed right atrial thrombus with sinus venosus ASD.



Fig 1: 2D Echocardiogram showing hyperechoic thrombus in both right and left atrium.

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A comparative study of CO₂ laser tonsillectomy versus conventional tonsillectomy in our experience

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ABSTRACT

Background: Tonsillectomy is one of the major surgical procedure in terms of volume in the oto-rhinolaryngological practice. It is an age old surgical procedure, referred in history of medicine. There have been various changes in the indications and surgical procedures since 4 to 5 decades.

Methods: A comparative study between the CO₂ laser and conventional method (dissection Hospital set up, by the same surgeon, using two different techniques. The main objective of the study is to compare the intra-operative events (blood loss, time taken for surgery). This study was done in 40 patients undergoing tonsillectomy with or without adenoid hypertrophy removal over a period of 1 year (June 2015- May 2016). The patients (20 cases) in the first half of this period underwent conventional tonsillectomy whereas the rest (20 cases) underwent CO₂ laser tonsillectomy. The gathered data were analysed by SPSS software (Ver-25) and using necessary tests. The differences between studied groups less than 0.5 (p<0.05) considered significant statically.

Results: Among 40 patients, 20 cases underwent tonsillectomy by CO2 laser and 20 cases by conventional method. 20 patients who underwent laser tonsillectomy had lesser bleeding (25 ml vs. 60 ml) intraoperatively, p<0.05 (significant) and total time consumed during surgery is less (4.5 minutes vs. 15 minutes) with laser when compared to conventional method p<0.05 (significant).

Conclusions: CO2 laser tonsillectomy is associated with low intraoperative bleeding and less time consuming surgery when compared to conventional tonsillectomy.

Keywords: Tonsillectomy, CO2 laser, Conventional method, Dissection and snare

INTRODUCTION

Tonsillectomy is one of the major surgical procedure ENT practice. Chronic tonsillitis has significant impact on quality of life and tonsillectomy done to treat the condition is a major procedure which can lead to many intra operative and post-operative complications including bleeding, pain etc. resulting in absence from school/work and reduced quality of life. There has been a conceptual change in the indications and surgical technique in the last 40 years. Tonsillar diseases are among the most commonly encountered health-related

problems in the general population. The choice of treatment is often tonsillectomy, which is still the most frequently performed surgical procedure in children and young adults. The most common organism causing acute tonsillitis is group A beta hemolytic Streptococcus. Patients who met the Paradise's criteria for tonsillectomy were prepared for surgery.

The objective of this study was to compare CO₂ laser tonsillectomy with conventional tonsillectomy in terms of intra operative events like bleeding and duration of surgery.

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A comparative study of hearing outcomes in canal wall up versus canal wall down mastoidectomy in our experience

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ABSTRACT

Background: COM causes considerable morbidity with ear discharge, conductive hearing loss and complications. Ossicular reconstruction is a surgical procedure which intends to improve the quality of hearing and life in such patients. Comparison of the outcomes will help to determine the merits or demerits of a particular procedure.

Methods: The study was conducted in the Department of ENT, VIMS, Bellary during the period from December 2010 to May 2012. All the patients with CSOM with ossicular erosion suggested by conductive hearing loss more than 40dB were included in the study. A detailed history taking, thorough clinical examination was done for these patients. Before and after the procedure pure tone audiometry was done to assess the hearing outcome. Post operatively PTA was done in 6th week, 3th month, 6th month follow up. Hearing improvement was analysed according to the type of procedure. The data collected was tabulated and subjected to statistical analysis.

Results: This study compared the outcomes of hearing gain in canal wall up versus canal wall down mastoidectomy surgeries. Hearing gain was better in canal wall up mastoidectomy (18.36 dB) than canal wall down mastoidectomy surgeries.

Conclusions: Hearing outcome was better in intact canal wall mastoidectomy than canal wall down mastoidectomy in our study.

Keywords: Chronic suppurative otitis media, Canal wall up mastoidectomy, Canal wall down mastoidectomy

INTRODUCTION

Chronic suppurative Otitis media is typically a persistent, potentially dangerous disease often capable of causing severe destruction and irreversible sequelae such as fatal intracranial complications leading to undue burden on the patient, family and society.

1

CSOM and associated hearing loss is significant in our society and an effort directed towards the assistance of those who are afflicted is indeed worthwhile. The consistent achievement of good hearing results in the presence of CSOM is still one of most difficult challenges of otologic surgery, so many great otologist

innovated and improved the quality of surgery and results. 2.3

Modified radical mastoidectomy (MRM) provides relatively safe surgical access for the removal of chronic middle ear and mastoid disease and gives reproducible results. However, it had been suggested that hearing may not be as good as that after "intact canal wall mastoidectomy" (ICWM).^{4,5}

This study was done to compare hearing outcomes between canal walls up versus canal wall down mastoidectomy surgeries.

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A comparative study of hearing outcomes in myringostapediopexy and myringoplatinopexy in our experience

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ABSTRACT

Background: COM causes considerable morbidity with ear discharge, conductive hearing loss and complications. Myringostapediopexy and myringoplationpexyis a surgical procedure which intends improve the hearing and quality of the life

Methods: The study was conducted in the department of ENT, SMVMCH, Puducherry from April 2017 to April 2018. A detailed history taking thorough clinical examination done for these patients. PTA was done before the procedure, post operatively at 3rd month. Hearing improvement analysed using different parameters like type of graft used, hearing gain and graft uptake. The data collected was tabulated and subjected to statistical analysis.

Results: Myringostapediopexy better hearing gain than myingoplatinopexy. Myringostapediopexy mean hearing gain 19.53 dB, myringoplatinopexy 12.59 dB.

Conclusions: This study compared the hearing outcomes of Myringostapediopexy and myringoplatinopexy with respect to hearing gain. Myringostapediopexy better hearing gain than myringoplatinopexy due to presence of stapes supra-structure.

Keywords: Chronic suppurative otitis media, Autologous ossicles, Temporalis fascia, Myringostapediopexy, Myingoplatinopexy

INTRODUCTION

Chronic suppurative otitis media (CSOM) is a common cause of hearing impairment and disability, leading to fatal intracranial and extracranial infections.

Chronic suppurative otitis media (CSOM) prevalence varies in different parts of the world. It varies from one percent in some parts of the world to more than forty percent in other parts of the world.¹

Many factors have been outlined as risk factors for "chronic suppurative otitis media". These include younger age, people living in overcrowded dwellings, lack of proper housing conditions, lack of proper hygiene, malnutrition, exposure to indoor or outdoor pollution, dysfunction of eustachian tube etc.²

Ossiculoplasty represents the reconstruction of the ossicular chain integrity in such a manner that it will transmit sound vibrations from the tympanic membrane to the oval window and to the inner ear. The aim of ossiculoplasty is to restore the ossicular chain as much as possible In the last three decades, various ossiculoplasty methods have evolved and good results were achieved. Nevertheless ossicula reconstruction continues to be a process in evolution.

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Wide bore needle aspiration for peritonsillar abscess

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ABSTRACT

Background: Peritonsillar abscess is the most common complication of acute tonsillitis.

Methods: A retrospective review was conducted to identify the cause, microbiology, management and outcomes of the peritonsillar abscess. Over a period of 4 years from September 2014 to September 2018, patients presenting with peritonsillar abscess to the Department of ENT, SMVMCH, Puducherry, who underwent wide bore needle aspiration at least once were included in this study. 45 patients were included in the study. Exclusion criteria were retropharyngeal and parapharyngeal abscess.

Results: Among 45 patients, 18 were males and 27 were females. Two patients presented with bilateral peritonsillar abacess. 40 patients responded well with initial wide bore needle aspiration and IV antibiotics, with no postoperative complications. 5 patients needed incision and drainage under local anaesthesia.

Conclusions: Wide bore needle aspiration is easy and cheap, less invasive, effective method of management in emergency situations of peritonsillar abscess. Early wide bore needle aspiration and IV antibiotics will prevent complications and reduce the need for incision and drainage.

Keywords: Peritonsillar abscess, Wide bore needle aspiration, Incision and drainage

INTRODUCTION

Peritonsillar abscess, also known as quinsy is a mixed bacterial infection leading to pus collection between capsule and superior constrictor muscle. It is usually preceded by peritonsillar cellulitis. Quinsy and peritonsillatis are common throat emergencies and is the most common head and neck abscess. Peritonsillar abscess commonly presents between 3rd to 4th decade of life and commonly occurs in winter and summer season commonly because of high incidence of streptococcal pharyngitis. ^{1,3} Peritonsillar abscess arises from Weber's glands. ^{1,2} Most common causative organism for peritonsillar abscess is mixed anaerobes and Group A Streptococcus. ^{1,14} The objective of this study was to compare the outcome of two important surgical

procedures for management of peritonsillar abscess incision and drainage and wide needle aspiration.

METHODS

In this study retrospective review of clinical data of patients with peritonsillar abacess presenting over 4 years period from September 2014 – September 2018 to the department of ENT at Sri Manakula Vinayagar Medical College and Hospital, Puducherry was done. Clinical case sheets, culture sensitivity reports, operative notes were used to collect the patients details. 45 patients with a documented peritonsillar abscess having had wide bore needle aspiration at least once were included in the study. Exclusion criteria were retropharyngeal and parapharyngeal abscess.

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Effect of radiofrequency vs other surgeries in the management of obstructive sleep apnoea

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ABSTRACT

Background: Snoring is an important social problem seen in both men and women. Snoring occurs as a result of soft tissue vibration caused by a partial upper airway collapse during sleep. The aim of the study was to analyse the morbidity and efficacy of radiofrequency thermal ablation of upper airway in patients suffering from OSA.

Methods: In the Department of ENT, Pondicherry, 40 patients between the age group of 20 to 60 years who were diagnosed to have OSA were operated according to the site of obstruction including RFVTR. Various parameters including ESS, partner scores, post-op pain, bleeding, pharyngeal dryness voice change were measured accordingly on the 1st day, 45th day, 90th day and 180th day postoperatively for the efficacy of treatment and also for assessing the morbidity of treatment provided.

Results: There is a statistically significant reduction in ESS scores and partner scores between pre-operative period and post operatively on the 45th day, 90th day and 180th day. Post-operative pain assessment also showed that patients who underwent RFVTR had lesser pain when compared to other surgeries like zetaplasty, LAUP, etc. Conclusions: Radiofrequency surgery should be considered as the treatment of choice for mild OSA and hypopneic

Conclusions: Radiofrequency surgery should be considered as the treatment of choice for mild OSA and hypopneic snorers. The important advantage of these procedures is technically simple and minimally invasive. RFTA of the soft palate leaves the mucosa intact contrary to LAUP, hence the pain comparably less. Relatively cost effective when compared to LASER and Coblator.

Keywords: Radiofrequency thermal ablation, OSA, RFVTR, RAUP

INTRODUCTION

Snoring is an important social problem seen in both men and women. Snoring is part of the spectrum of sleep disordered breathing (SDB), from obstructive sleep apnoea hypopnea OSAHS at one end to simple snoring at the other. Snoring can occur as primary snoring or as part of a syndrome of the obstructive sleep apnoea.

A conservative estimate of the prevalence of OSAHS in middle aged men (30-65 years) is in the range of 0.34% with most studies giving a prevalence of 1-2% which is a simple prevalence to type 2 diabetes and approximately double that of severe asthma. The prevalence of OSAHS in middle-aged women has been less well studied but is probably about half that in males at around 0.51%.1

Snoring occurs as a result of soft tissue vibration caused by a partial upper airway collapse during sleep. The most common site of obstruction during snoring is the soft palate, however, other regions of the upper airway tract also may cause snoring such as the nose, base of tongue, tonsils and the epiglottis.

OSA is clinically associated with obesity epidemic globally, and it is characterized by repetitive, partial or complete collapse of the upper airway during sleep, causing impaired gaseous exchange and sleep

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Incidental presence of non recurrent laryngeal nerve in our series of thyroidectomy

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ABSTRACT

Background: Recurrent laryngeal nerve (RLN) injury is one of the most important and preventable complications of thyroidectomy which is the cause of post-operative introgenic vocal cord paralysis. The non-recurrent laryngeal nerve (NRLN), which is found in 0.25-0.99 of the patients who undergo thyroid surgery, is a rare embryologically-derived variant of the recurrent laryngeal nerve (RLN). Identification and prevention of injury to the laryngeal nerve is very important in thyroid surgery. The objective of the study was to highlight the incidence of Non-recurrent laryngeal nerve in our series of thyroidectomy cases.

Methods: In the Department of Otorhinolaryngology, Pondicherry a retrospective analysis of all the thyroid surgeries that were operated between August 2006-November 2018 for various indications on a total of 1006 patients was done with specific interest in the lookout for anatomical variant of recurrent laryngeal nerve and findings were recorded.

Results: Among all the cases, two patients with MNG who had underwent Total thyroidectomy were found to have

anatomical variants of recurrent laryngeal nerve (non recurrent laryngeal nerve) intra operatively.

Conclusions: The NRLN is a rare finding and is associated to an increased risk in introgenic injury especially during thyroid surgeries unless thorough anatomical knowledge and cautious dissection is not done.

Keywords: Non-recurrent laryngeal nerve, Anatomical variants of recurrent laryngeal nerve, Recurrent laryngeal nerve injury

INTRODUCTION

Goiters are managed universally using medications to make it euthyroid and then surgically removed. Among the complications of thyroidectomies, the most dreaded and commonly encountered ones are vocal cord paralysis and post-operative hypocalcaemia. The thyroid surgeon should be familiar with the anatomy of the RLN, including all its anatomical variations.

Recurrent laryngeal nerve (RLN) injury is one of the most important and preventable complications of thyroidectomy which is the cause of post-operative (iatrogenic) vocal cord paralysis. 1 It is also one of the common reasons for litigation after thyroid surgery in the West. 2

The RLN arises from the vagus nerve that supplies all the intrinsic laryngeal muscles, except for the crico-thyroid muscles. In thyroid surgery, RLN identification and preservation are fundamental steps. Non-recurrent laryngeal nerve (NRLN) is known as a rare anatomical variant of RLN with the proportion of 0.3%- 0.8% on the right side, and 0.004% (exceptionally rare) on the left side.³

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Lithium Toxicity Causing Neuroleptic Malignant Syndrome

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Abstract

Lithium is used as a mood stabiliser. Here we report a case of bipolar disorder on Lithium and Olanzapine presented with fever, generalised rigidity and unconsciousness. He was diagnosed as Neuroleptic malignant syndrome (NMS). His serum lithium level was elevated. Lithium associated NMS usually occurs only in combination with antipsychotics at around 0.01-3%.

Introduction

Neuroleptic malignant syndrome (NMS) is a lifethreatening neurologic emergency associated with the use of antipsychotic (neuroleptic) agents and characterized by a distinctive clinical syndrome of mental status change, rigidity, fever, and dysautonomia. Incidence rates for NMS range from 0.02 to 3 percent among patients taking antipsychotic agents. NMS is mostly found associated with the use of traditional antipsychotics, but may also occur when atypical antipsychotics such as risperidone, olanzapine, and clozapine are used.

There are some cases of NMS associated with the use of non-neuroleptic drugs, like carbamazepine and metoclopramide, or drugs without known anti-dopaminergic activity, such as lithium. Lithium is a first-line mood stabilizer used in the treatment and prophylaxis of bipolar disorder. There are several case reports of lithium-associated NMS, but only in combination with antipsychotics².

Case Report

A 54 year male presented to casualty in unconscious state with history of fever for past four days after which he developed generalised rigidity and altered sensorium. No other positive history. He was an old case of bipolar disorder and was on lithium and olanzapine for past 20 years. On examination his GCS was 5/15 with a raised heart rate of 120/min, blood pressure of 160/100 mm Hg and a temperature of 104°F and oxygen saturation of 85%. Systemic examination showed bibasal coarse crepititions and a rigid tone of all four limbs. Blood investigations showed elevated total count and renal profile and elevated creatine kinase. Chest x-ray showed features of aspiration pneumonia. Neuroimaging showed no abnormality. He was diagnosed as Neuroleptic Malignant Syndrome and aspiration Pneumonia. Due to poor GCS he was intubated and mechanically ventilated. The reason for his NMS was evaluated and his serum Lithium level was elevated at 4.3meq/L. Lithium was discontinued. He was treated with intravenous antibiotics.

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Extranodal Non-Hodgkin's Lymphoma presenting as Cavernous sinus syndrome

Authors

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Abstract

Non-Hodgkin's lymphoma (NHL) is a monoclonal proliferation of lymphoid cells of B cell (70%) and T cell (30%) origin. Primary lymphomas of uterine cervix are rare. Central nervous system involvement can occur as a late manifestation of NHL and may include mass lesions and meningeal infiltration. This is a rare case of uterine cervical non hodgkins lymphoma presented as cavernous sinus syndrome.

Introduction

Non Hodgkin's lymphomas are cancers of mature B, T, natural killer cells. It constituted 4% of all cancers and it is the ninth most common cause of cancer related death. The incidence is 1.5-2% per year. About 90% are B-cell origin. T-cell lymphomas are more common in India. The five year survival rate is 72%.

The clinical presentation can be asymptomatic or the presence of B symptoms such as fever, night sweats, unexplained weight loss. Diffuse large Bcell lymphoma is the most common type. Upto 40% patients will have involvement of non-lymph node sites.¹

Case Report

This is a case of a 32 year old female who was apparently healthy 20 days back and then developed toothache for which her lower premolar was removed due to presence of caries. Two days later she developed headache which was progressive, dull aching, diffuse, not associated

with vomiting and seizure. Associated with pain over the cheek for the past 10 days with low grade intermittent fever for 6 days. She came to our hospital for her main complaint of inability to open and move her left eye for past 4 days. No history of eye swelling, blurring of vision, eye pain, discharge, redness, local injury, double vision. No history of similar complaints on her left eye. History of altered sensation over the face is present. No history of any other cranial nerve, motor, sensory abnormality. On examination positive findings were left eye partial ptosis with dilated and non reacting pupil with nil movements and reduced sensation over the V1 and V2 distribution on the face. Abdomen examination revealed non tender hepatomegaly. Rest of the examination was normal.

Blood investigations showed deranged urea and creatinine. USG abdomen was done in view of view of elevated RFT. USG abdomen and pelvis revealed hepatosplenomegaly, bulky uterus and cervix with enlarged right ovary, right adnexal

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A Rare Presentation of Migraine

Authors

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Abstract

Familial hemiplegic migraine (FHM) is a rare subtype of migraine with prevalence of 0.003%. Here we report a case presented with headache with nausea and blurring of vision with associated limb weakness with similar episodes in the past and a positive family history with a normal neuroimaging.

Introduction

Familial hemiplegic migraine (FHM) is a rare subtype of migraine presenting with recurrent attacks of migraine with aura and transient neurological deficit¹. The prevalence of FHM is 0.003%². It is of four types. As of now three genetic mutations are identified- CACNAIA gene in FHMI, ATPIA2 gene in FHM2 and SCNIA gene in FHM3. These genetic mutations cause abnormalities in the ion channels, altering the membrane excitability and predisposing to migraine³.

Case Report

A 31 years old male presented with headache, blurring of vision in the left eye, nausea followed by weakness of left upper and lower limb for 6 hours duration. He had similar complaints twice in the past and got resolved within a day. He also had history of similar complaints in his family with his brother and mother. CNS examination revealed decrease power and tone on left side. His blood investigations were normal. His neuroimaging revealed normal study. He was

diagnosed as Familial hemiplegic migraine. He was treated with calcium channel blocker and advised to follow up. On follow up his symptoms were resolved.



Fig 1: Contrast enhanced MRI brain showing normal brain parenchyma

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RESEARCH ARTICLE

Prevalence of Chronic Kidney Disease and Its Determinants in Rural Pondicherry, India-A Community Based Cross-Sectional Study

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Abstract

Introduction:

The burden of CKD is on the rise globally and in India. There are scarce population based studies based in rural industrialized settings in India and elsewhere

Objective:

To find out the prevalence and determinants of Chronic Kidney Disease (CKD) among adults in rural Pondicherry, India

Methods:

It was a community-based cross-sectional study in 13 villages of a Primary Health Centre in rural Pondicherry. A representative sample of 422 adults more than or equal to 50 years of both genders was selected by population proportional to size methods. All the participants were screened by SCORED questionnaire to get the potential cases of CKD. We did serum creatinine, urine examination, blood pressure and anthropometric measurement for the potential cases. CKD was diagnosed by estimation of glomerular filtration rate and presence of protienuria. The data was analyzed using Statistical Package for Social Science version 24. The study was approved by the Institutional Ethics Committee of SMCMCH, Pondicherry.

Results:

The prevalence of CKD was found to be 24.2% in the study sample of respondents 50 years or more. Most (73.5%) of the CKD cases were at stage 2, Stage 3a had 15% and stage 3b had 2% of the cases. The determinants of CKD were (60-69 years, PR: 2.36,CI:1.36-4.07), poor mutrition(underweight, overweight and obesity)poor nutritional status (underweight:PR: 2.26,CI:1.05-4.89), (overweight:PR: 2.19,CI:1.06-4.52), (obese:PR: 2.13 CI: 1.13-4.01) and presence of at least one chronic co-morbidity(PR:5.85,CI:1.38-24.78). Majority of the patients in the CKD group had minimal proteinuria 87.25%. And 42.15% of the CKD group had no k.w.5 or k.w.6.

Conclusion and Recommendation

Considering the higher prevalence of CKD in the study area, targeted screening of adult population should be undertaken as means of early detection, diagnosis, treatment and follow up of at-risk individuals to prevent further progression of CKD. Further research is required to look at the aetiology of CKD.

Keywords: Chronic kidney disease, Epidemiology, Rural, India, Hypertention, Diabetes mellitus.

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Original Article

A study of serum arginase activity in diagnosis of liver diseases

Authors

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Abstract

Background: Liver disease presents as a spectrum of clinically asymptomatic liver disease to end stage liver disease. Various serum markers used in liver diseases but are not specific or sensitive and influenced by other factors. We do a battery of investigations - liver function tests. Liver biopsy is the gold standard investigation, but is invasive. There is a still a search for a non invasive and a better marker for diagnosis of liver diseases. Serum arginase an enzyme of urea cycle gets elevated in liver damage and can be used in diagnosing liver diseases.

Objective: To assess the serum arginase activity and state that it can be a marker of diagnosis of liver disease. To assess the severity of liver disease using serum arginase

Materials and Methods: This was a rural based teaching hospital based cross sectional study of 80 patients with liver diseases. The serum arginase level (by elisa method) in the patients were compared with the novel liver function tests. Also we analysed whether serum arginase can be used as a indicator of disease severity by comparing it with the Child-Pugh score and MELD score.

Results: The mean serum arginase value of the study subjects by ELISA method was 92.38 ng/ml with a p value of 0.01 and was found to be statistically significant. When compared with AST & ALT using Child Pugh and Meld score, serum arginase was found to have a poor correlation with severity with a p value of 0.976 with CP score and 0.83 with MELD score which was statistically insignificant. Serum AST values were better predictor of severity with a p value of 0.432 with CP score and 0.018 with MELD score which was statistically significant.

Conclusion: Serum arginase can be used in diagnosis of liver diseases but a poor indicator of the severity when compared with scoring systems. Serum AST correlated better with severity in this study.

Introduction

Liver plays the central role in metabolism and liver diseases are in rising trend all over the world responsible for around 700 thousand deaths per year, the 14th commonest cause of death worldwide. The diagnosis of liver diseases is made by a battery of serological investigations and imaging techniques. The novel liver function

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STUDY OF HIGH SPECIFIC C-REACTIVE PROTEIN IN ACUTE ISCHAEMIC STROKE

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ABSTRACT

BACKGROUND

We wanted to study the highly specific C-reactive protein in acute ischaemic stroke and examine the acute ischaemic stroke patients in a region, against their CRP levels for stroke prognosis.

METHODS

This study was an observational study. The study was conducted at in Venkateshwars Medical College & Hospital. The sample size taken for the study is n=100 patients.

RESULTS

The association of highly specific C reactive protein with diabetes mellitus showed thi square 6.803, p<0.01, with cholesterol level thi square 9.425, p<0.01, with hypertension thi square 4.191, p<0.05, with ischaemic heart disease p<0.01, with smoking p<0.01, with alcoholism p<0.01, with angins p<0.01.

CONCLUSIONS

The findings of the present study indicate that regulating the level of CRP will help to decrease the risk of acute schematic stroke. The study concludes that high hsCRP level predicts the chance of higher level of acute ischaemic stroke. Furthermore, diabetes mellitus is also associated with higher CRP level and this is the reason for majority stroke patients having diabetes mellitus. Indepth study in CRP levels and its regulation should be conducted.

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BACKGROUND

Stroke being a serious neurological disease, is one of the major causes of disability throughout the world,3 Of all cases of stroke, ischaemic strokes constitute 85-87 per cent. Spontaneous intracerebral haemorrhage and subarachnoid haemorrhage are caused by haemorrhagic stroke and account for the remainder of cases. Neuro-imaging investigations such as Computed Tomography (CT) and Magnetic Resonance Imaging (MRI) are outstanding techniques in the management of stroke patients, the role biomarkers in supporting the clinical diagnosis of stroke, identifying patients at risk of disease and guiding treatment and prognosts should never be ignored.3 Many ischsemic stroke candidate have been identified so far, but however, none are used in clinical practice. Principal causes of ischemic cerebrovascular disease are thrombosis, embolism and focal hype perfusion. These can lead to reduction or an interruption of Gerebral Blood Flow (CBF) that affects neurological function. Sudden onset of hemiparesis in an older person is the typical presentation of ischemic stroke. The extent of collateral flow and the location of occlusion determine the differences in symptoms and signs.

Pinancial or Other Competing Interest'. None.
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COLOGO

Atherosclerotic ischemic stroke which occurs without warning in more than 80% of cases is more common in the elderly. Transient ischemic Attack (TIA) which occurs a few months before the stroke is an important warning sign.

The pathophysiology of TIA is like that of ischemic heart disease. It is an atherosclerotic plaque in a cerebral artery ulcerates inducing accumulation of platelets and coagulation of fibrin to create thrombus that occludes the artery in arteriosclerosis. Which is induced by hypertension, small penetrating arteries in the deep white matter of the brain are affected creating small infarction known as lacunar infarcts. Patients with atrial fibrillation, nearly 80 per cent of them, myocardial infarction, prosthetic values, rheumatic heart disease and larger artery atheroma (Artery- artery embolus) are more susceptible to embolic ischaemic stroke. Atherosclerosis causes emboli, which can partially or temporally obstruct cerebral arteries triggering TIA.

Infarction (Cellular death) occurs within minutes depending on the severity of the ischaemia, which causes irreversible damage even after the restoration of blood flow. This is known as 'core' of the infarct. The tissue surrounding the core is functionally affected because of reduced circulation but can recover once blood flow is restored. This is termed as ischaemic penumbra of the stroke. However, in many cases it is amenable to treatment up to 12 hours, which is called the 'therapeutic window' open for thrombolysis. All necrotic tissues contain oedema and in large areas of necrosis, massive oedema presses adjacent tissues. This increases intracranial pressure and can trigger her resulting in death within a few days in 80 percent of the cases.

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Comparison of Carotid Artery Intima-media Thickness and Resistive Index by Ultrasound and Colour Doppler in Pre-hypertensives and Stage One Hypertensives

Radiology Section

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ABSTRACT

Introduction: Pre-hypertension and stage one hypertension remains major public health problem in both developed and developing countries. It primarily affects elastic arteries, hence common carotid artery intima-Media Thickness (IMT) and Resistive Index (RI) considered an early predictor of cerebrovascular and cardiovascular complications.

Aim: This study was aimed to assess common carotid artery IMT and Resistive Index in pre-hypertensives and stage one hypertensive patients and to compare the findings between both groups.

Materials and Methods: The study design was hospital based cross sectional study and was conducted in Sri Manakula Vinayagar Medical College and Hospital, Pondicherry. Forty non diabetic patients in the age group of 25-65 years were examined for carotid artery Doppler. The patients were divided into prehypertensives and stage I hypertensives. Bilateral common carotid artery IMT and RI were evaluated.

Results: Among the 40 patients studied, 24 patients were prohypertensives and 16 were stage I hypertensives, 70% were females and 30% were males. Palpitation was the commonest presenting symptom. Mean Systolic blood pressure was 128.25±4.60 in prehypertensives and 141.25±6.44 in stage I hypertensives. The mean IMT in both prehypertensives and stage I hypertensives was 0.05±0.01 on either side. Mean Resistive Index in prehypertensives was 0.73±0.08 on either side; while that in stage I hypertensives was 0.72±0.13 on right and 0.71±0.11 on left. However, no rise in IMT was observed with increasing age in both the groups. On comparison both the groups showed no significant difference in IMT and Ri.

Conclusion: To conclude, both the prehypertensives and stage I hypertensives show similar pattern of IMT and RI of the common carotid artery.

Keywords: Palpitation, Pourcelot Index, Vascular resistance

INTRODUCTION Development of athere

Development of atherosolerosis in vascular system occurs by various mechanisms, among which hypertension is an important and independent risk factor [1]. More than ninety-five percentages of hyperforisive patients in the community are of assential, whereas only a small percentage has an identifiable cause which is known as secondary hyperfension. The various systemic changes can be assessed by the atherosolerotic changes that take place in the carotid artery [2]. It increases the risk of stroke, coronary artery disease and peripheral arterial disease by two-three folds with risk being proportional to the severity of hyperfereion [3].

Increase in IMT of an arriory has been used as a surrogate marker of subclinical atheroscierosis and early detection of vascular events [3]. B-mode ultrasound of carotid arteries is a non-invasive, sate, inexpensive, sensitive, valid and reproducible method of directly assessing IMT [4]. The intima-media complex is made up of various elements like the endotholial cells, connective tissue and smooth muscle. This complex is measuring sonographically as the IMT [5].

The volocity of blood flowing via the carotid artery can be determined by colour Doppler [6]. There are multiple ways to increase the accuracy of the results, low of which are Doppler angle, sample volume box and colour gain [7].

According to Pourcelot RI is a harmodynamic parameter, which is determined by Doppier Sonography basically reflecting the vascular resistance which in turn depends on distensibility of the vessel [8]. The present study almod to evaluate the common carotid artery IMT and RI by Ultrasound and Colour Doppler in prehypertensives and stage one hypertensive patients and to compare the findings between prehypertensives and stage one hypertensives.

MATERIALS AND METHODS

The study design was hospital based cross sectional study and was conducted in department of Radio-Diagnosis at St Manakula Vinayagar Modical College and Hospital, Puducharry. The study was approved by the institute ethics committee. The duration of study was stomenths. Stage I hypertensive and prehypertensive subjects the age group of 25 to 60 years were included. Those with history of Diabotes molitus and hypertipidamia were excluded from the study.

The subjects were divided as follows: Prohypertensives: Systolic Blood pressure: 120-139 mmHg or Diastolic Blood pressure: 80-89 mmHg; Stage I hypertensives: Systolic Blood pressure: 140-159 mmHg or Diastolic Blood pressure: 90-99 mmHg [9].

After obtaining informed consent, ultrasonography and doppler was performed using GE-voluson-S6 scanner with 7.5-10 MHz linear array transducer.

IMT defined as the distance between leading edge of the lumenintima echo and leading edge of the media-adventitia echo is measured 1.5 cm proximal to its bifurcation. Then pulsed-Doppler carried out in Common Carotid Artery (CCA) 1.5 cm proximal to its bifurcation with maximum Doppler angle of 60°. The maximum systolic and minimum diastolic flow rates were determined and Fil was calculated automatically in a cycle by means of in-built software.

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Original Article

Procedural and follow-up clinical outcomes after chronic total occlusion revascularization: Data from an Indian public hospital

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Reywords: Total ocidiation Outcomes Revarialization Sjection fraction Antegrade technique

ABSTRACT

Badground: Chanic total occlusion (CIO) continues to be challenging lesion subset for perdutaneous intervention. Let decade has seen termendous increase in perdutaneous contrary intervention (PCI) in this subset owing to improve dunde of anding of the anatomy and enhanced skillert with availability of dedicated hardware. We sought to study the outcomes of CIO PO in an Indian public hospital.

Methods: This was a single-center non-randomized descriptive follow-up study on CTO PCI. The endpoints were procedural success, immediate, and late adverse cardiovascular events [major adverse ordiac event [MACE]] and change in angina and left ventricular function at follow-up.

disc event (MALE)] and charge in aights and left with a success rate of 878 (339/389). The mean Japanese chemic total occlusion (J-CTO) score was 1.78 ± 0.12 (mean \pm standard deviation). Multivariate analysis of different angiographic components of J-CTO score identified tentrosity (p=0.001), calcifications ($p\le0.001$), and blunt strain (p=0.007) as independent predictors of procedural follow. The periprocedural mortality was less than 1% and the non-life threatening complications were about 4%. The MACE rate was significantly higher in the procedural failure group (80%) than in the procedural success group (5.3%, p<0.001). An increase in left ventricular ejection fraction (LVEP) was noted following successful CTOPO after complete revealularization.

Conclusions: The auxiess rates for CTO PG in this negative were about 87%, immediate and long-term clinical out-to-mes were better with lower MACE(5%) after a successful procedure. A key outcome variable included an increase in IME among patients after a successful CTO PCI. The overall periprocedural complications were about 5.5%, but majority were non-life threatening.

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1. Introduction

Or oric total occlusion (CTO) of a major epicardial vessel is seen in up to 20% patients undergoing diagnostic angiography and in up to 35% following an episode of acute commany syndrome. ^{1,2,4} It is one of the most important indication for referral for commany artery bypass surgery as well. ^{1,2,5} Of late, there are growing data, which indicate that successful treatment of CTOs results in improved symptoms, prolonged life, and improved left ventricular function status. ^{1,2,3} But the attainment of high end technical skills, sophisticated hardwares, and dedicated training sessions with experts in this field have made a huge impact on the success rates of CTO in developed nations. ^{1,0,10} In developing countries such as India, the

situations are different 11/13/6 At one end, the country faces coronary artery disease (CAD) epidemic, and about 20% patients with diagnosed CAD shows the presence of CTO in one of the vesrels. 12,15,16 At the other end, there is significant lag in attaining required technical skills and availing dedicated CTO hardware. We face many challenges in CTO percutaneous coronary intervention (PO) especially as the procedure demands huge amount of resources in terms of multiple hardware and technical skill set. As there is no public insurance, all patients end up paying from their own, and poor patients face challenges in approaching private centers for treatment because of high treatment expenses owing to extra requirement of consumables. 17-19 Public hospitals in India thus receive large influx of patients for CTO PCI. We planned to audy the procedural and clinical outcomes of CTO PCI in the public hospital set up in India assessing various clinical objectives such as incidence of procedural complications and major adverse cardiac

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A study on usefulness of modified medication adherence scale in assessing adherence among hypertensive patients

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Abstract Background: Adherence to medication is important for control of blood pressure (BP) and prevention of its complications. Identifying factors which improve adherence to treatment helps in improving cardiovascular outcome

> Aim: The aim is to study the adherence of hypertensive patients to medication using modified medication adherence scale (MMAS).

> Materials and Methods: This study was done as a cross-sectional study in the Department of General medicine in Aarupadal Veedu Medical College and Hospital, Puducherry, from May 2017 to October 2017. All adult patients of both sexes diagnosed to have hypertension were included in the study after obtaining Informed consent. Adherence to hypertension was assessed using MMAS and results were analyzed. SPSS 22 software (International Business Machines Corporation, Released 2013, IBM SPSS Statistics for Windows, Version 22.0. Armonk, NY) was used for statistical purposes.

> Results: A total of 150 patients were included in the study. There were 53 males and 67 females in the study. Cood adherence was observed in 74 (49%) out of the total 150. Forty-nine (59%) males and 25 (37%) females were found adherent to treatment. Patients with monotherapy had a good adherence compared to those with polytherapy. Patients with good adherence had a good control of BP.

> Conclusion: MMAS is a simple and useful tool for assessing medication adherence among hypertensive patients.

Keywords: Adherence, blood pressure, hypertension, modified medication adherence scale

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INTRODUCTION

Mean systolic blood pressure (BP) of more than 140 mmHg or above, mean diastolic pressure of 90 mm Hg or above, defines hypertension [9] Hypertension doubles the risk of cardiovascular diseases, including coronary heart disease, congestive heart failure, ischemic and hemorrhagic stroke, renal failure, and peripheral arterial disease. It is often associated with additional cardiovascular risk factors and the risk of cardiovascular disease increases with the total

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burden of risk factors. Poor adherence is associated with higher residual cardiovascular risk and a high health-care burden. [8] In approximately half of the cases, uncontrolled hypertension has been attributed to patients failure to follow properly a prescribed drug regimen. 19

MATERIALS AND METHODS

This cross-sectional single-visit study was done in Aarupadai Veedu Medical College and Hospital,

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Hypovitaminosis D and effect of vitamin D supplementation in type 2 diabetes mellitus: a rural population based study

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ABSTRACT

Background: Deficiency of Vitamin D in general population and its association with various disease conditions have been studied worldwide. Type 2 Diabetes mellitus is increasing at an alarming rate in Indian subcontinent, contributing to increased morbidity and mortality. This study aimed to estimate level of Vitamin D and its association with patients with type 2 diabetes mellitus of rural origin. This study objective was to estimate the Vitamin D level of patients with Type 2 Diabetes mellitus and the effect of Vitamin D supplementation on glycemic status

Methods: This study was conducted at the Department of General medicine for a period of 1 year. Eighty patients with type 2 Diabetes mellitus were recruited in the study and baseline parameters of glycemic control and Vitamin D levels were assessed. Only 36 patients complied with the recommendation and evaluated further.

Results: All the patients included in the study had insufficient or deficient levels of Vitamin D. The mean vitamin D levels before and after supplementation were 17.75±6.30 and 29.33±6.34 respectively. The mean plasma HbA1c level before and after supplementation were 7.78 and 7.30 respectively. Patients after vitamin D replacement showed significant improvement in their glycaemic status.

Conclusions: Vitamin D supplementation of 2000 IU/day had shown to improve the glycaemic status. The beneficial effect of Vitamin D on diabetes was evident in a short period of supplementation.

Keywords: Diabetes mellitus, Glycemic status, Vitamin D deficiency, Vitamin D supplement

INTRODUCTION

Vitamin (Vit) D is crucial for metabolism of calcium and its homeostasis. It is estimated that 1 billion people worldwide have vitamin D deficiency or insufficiency. Vit D deficiency is still an undertreated nutritional disorder. Vit D deficiency has been noted in 70-100% of healthy persons. There is a varying degree (50-90%) of Vitamin D deficiency with low dietary calcium intake in Indian population according to a study published by Londhey V. Apart from low dietary intake, people suffering from hepatic, renal, dermatological disorders, alcoholics and inflammatory rheumatologic conditions also have Vitamin D deficiency. A growing number of studies have reported widespread vitamin D deficiency

and insufficiency in both apparently healthy population and patients with various pathologies.² Type 2 Diabetes mellitus (DM) which is increasing at an alarming rate in developing countries like India is a major public health problem accounting for significant morbidity and mortality. The prevalence of Diabetes Mellitus in India is estimated to be around 62.4 million cases in a recent study.³ Low levels of vitamin D have been associated with an increased risk of cardiovascular mortality in the general population as well as in patients with type 2 Diabetes mellitus.^{4,5}

The prevalence of Diabetes mellitus is high in Southern parts of India but there is a paucity of literature regarding the association of Vitamin D and diabetes mellitus.

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The Study of Proportion and Molecular Characterisation of *Helicobacter pylori* in Dyspeptic Patients in Sri Manakula Vinayagar Medical College and Hospital

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Corresponding Author, Dr. S. Yogush

ABSTRACT

Background: Helicobacter Pylori is the colonized in humans over 100,000 years, the prevalence of H.Pylori in different in various parts of the world. Complications of the organism are varies. This study helps in proportion of H.pylori in the patients attending in tertiary hospital.

Aims: 1. The study of proportion of Helicobacter pylori in dyspepsia.

 Molecular characterisation of Helicobacter pylori in dyspeptic patients in Sri Manakulavinayagar Medical College and Hospital.

Methodology: A Hospital based cross section study conducted in Department of General Medicine. The study period was about one and half year after obtaining the ethical committee approval. The study population is of 95 who are came with the complaint of dyspepsia diagnosed by Rome category, patients underwent upper gastro endoscopy tissue sample obtained sent for histopathology staining, Urease test, PCR test.

Results: Among the study participants, histopathology report for H.pylori positive for 19 out of 95 participants, percentage 20.0%. Urease report is positive for 22 out of 95 participants, percentage 23.16%. Among the histopathology positive for H.pylori in study participants, PCR for VacA Gene is positive in 10 out of 19 study participants, percentage 52.63%.

P valve = 0.001 in Histopathology report, P valve = 0.003 in Urease report, P valve = <0.01 in PCR report. P value <0.05 will be considered statistically significant.

Conclusions: H.pylori infections cause gastro-duodenal ulcers, carcinoma, MALT lymphoma. Identifying and treating the infection is important. Patients with VacA gene positive in this study can be treated with four drug regimens.

Keywords: Helicobacter pylori, dyspepsia, Histopathology test, Urease test, PCR test.

INTRODUCTION

H. pylori is a gram-negative bacillus that has naturally colonized humans for at least 100,000 years. ^[1] The prevalence of this infection varies world widely as low as 10 percent in developed western nations to higher than 80 per cent among the indigent populations of many developing countries it is estimated that more than 20 million are affected in India. (2)

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Multiple Endocrinopathies in a Young Female - A Case Report

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Abstract

Autoimmune polyendocrine/polygiandular (APS) syndromes are constellations of multiple endocrine gland insufficiencies, of whom there are 3 types, and amongst which APS type II is the most common. APS type III is defined by the presence of an autoimmune thyroid disease and other autoimmune illnesses, excluding Addison's disease. In our case report here, we present a case of a 22 year old young female from South India with multiple endocrine disorders which come under the category of PGA syndrome type III C, with a few disorders more than the usual endocrinopathies which are included in type III PGA syndromes.

Keywords: Autoimmune polyendocrine/ polyglandular syndromes (APS), hypothyroidism, type I diabetes mellitus, alopecia, primary amenorrhea, dyslipidemia, bronchial asthma.

Introduction

Autoimmune diseases are among the most perplexing of human illnesses. [1] In APS (Autoimmune polyendocrine/ polyglandular syndrome) type III, autoimmune thyroidtis occurs with another organ-specific autoimmune diseases; but the syndrome cannot be classified as APS types I or II due to the absence of Addison's disease. Cases of APS type III associated with different immunological or genetic disorders have been sporadically reported. Premature ovarian failure (POF) is more prevalent than AD (1,000)

per 100,000 women), but only 5% of cases are of an autoimmune origin (2,3) In our case report, we are presenting a 22 year old female who has alopecia, primary ovarian failure, dyslipidaemia and bronchial asthma alongside hypothyroidism and type-1 diabetes mellitus. This is another peculiar presentation of the APS type III.

Case Report

A 22 year old female was brought to our casualty unconscious, and was found to be hypoglycaemic which on probing was found that she had been

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Study of Clinical profile and Antibiotic susceptibility of Urinary Tract Infection in a Tertiary Care Hospital

Authors

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Abstract

Introduction: Urinary tract infection (UII) is one of the most common infectious disease for which Treatment is often started empirically. The etiology and the antimicrobial susceptibility for UII have been changing over the years.

Objective: To know about the clinical and microbiological profile of urinary tract infection among patients admitted in Sri Manakula Vinayasar Medical College and Hospital.

Methodology: We conducted a cross sectional study among patients who were diagnosed as UII based on urine culture. The commonest organism and their antibiotic susceptibility was studied. Ultrasonography (USG) abdomen and pelvis was done to find out any structural abnormalities and complications.

Results: Out of the 40 patients studied, fever (85%) was the most common presenting symptom and Escherichia coli (57.50%) was the most common organism isolated followed by Klebstella (15%). The most sensitive antibiotic was meropenem (75%) and the most resistant antibiotic was cefazolin (87.50%). These results were found to be statistically significant.

Conclusion: A higher percentage of resistant organisms against the commonly used antibiotics alarm about the indiscriminate use of antibiotics. Hence empirical antibiotic selection should be based on the knowledge of local prevalence of bacterial organisms and their antibiotic sensitivity to avoid the development of resistance.

Keywords: Urinary tract infection (UTI), organisms, antibiotic sensitivity and resistance.

Introduction

Urinary tract infection (UTI) is one of the most common infectious disease seen in the community. UTI may be asymptomatic or symptomatic. It includes asymptomatic bacteriuria, cystits, prostatitis, pyelonephritis. Uncomplicated UTI refers to acute cystitis or pyelonephritis in non-pregnant women or men

without anatomical abnormalities or instrumentation of the urinary tract. The term complicated UTI encompasses all other types of UTI.² It is more common in females than in males ²

The estimated annual global incidence is 250 million. Community associated UTI prevalence is 0.7% and health care associated UTI is 24% in

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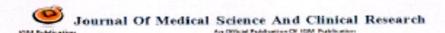
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A case of Mixed Connective Tissue Disease with Right Heart Failure

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Abstract

Background: Sharp and colleagues in 1972 was first described the Mixed connectivetissue disease (MCTD). They described MCTD in a group of people having with overlapping clinical features of scleroderma, myositis and systemic lupus erythematosus (SLE) with the presence of a specific antibody against U1-ribonucleoprotein (RNP). Sharp's syndrome is the other name for MCTD. It is more common in females than males. Estimations of the female to male ratio varies from approximately 3:1 to 16:1. It is typically occurring between 15-25 years oldbut it can occur at any age but in our country has rarely been reported but here by reported rare presentation of MCTD occurs in 65 years old female.

Keywords: Mixed connective tissue disease; Pulmonary hypertension; Extractable nuclear antigen.

Introduction

Mixed connective tissue disease is the systemic inflammatory rheumatic disease very uncommon. If the patient has features of more than one classical inflammatory rheumatic disease then it is categorized under rheumatic "overlap syndromes". It is the specific subset of MCTD. Mixed connective tissue disease can occur in any age from childhood to adulthood. 37 years is the average age of disease onset. Approximately 75 percent of individuals affected are females. In Norway MCTD has been found to be 3.8 per 100,000 adults. These classic rheumatic diseases

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includepolymyositis, scleroderma, rheumatoid arthritis and systemic hipus erythematosus. Laboratory result distinguishes MCTD from other overlap syndromes. Patients of MCTD have rheumatic overlap syndrome plus anti-RNP antibodies.⁵

Case Report

A 65 years old female, came with the complaints of difficulty in breathing and swallowing, palpitations, giddiness, swelling of hands, right shoulder pain, cough with expectoration, and oral dryness with co-morbidities such as Type II

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Copper myeloneuropathy

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Abstract

Myeloneuropathy is a frequently encountered condition and often poses a diagnostic challenge. Myeloneuropathy arises from a variety of nutritional, toxic, metabolic, infective, inflammatory, and parameoplastic disorders. Vitamin B12, folic acid, copper, and vitamin E deficiencies may lead to myeloneuropathy resembling as that of subacute combined degeneration of the spinal cord. Chikungunya viral infection has been shown to produce a syndrome similar to myeloneuropathy. Human immunodeficiency virus (HIV) infection may resemble subacute combined degeneration. Magnetic resonance imaging (MRI) in subacute combined degeneration of the spinal cord typically reveals characteristic signal changes on T2-weighted images of the cervical spinal cord. Once myeloneuropathy diagnosis is suspected, all these patients should be subjected to a battery of tests.\(^1\). Vitamin B12, folic acid, vitamins A, D, E, and K serum levels along with levels of iron, methylmalonic acid, homocysteine, and calcium should be assessed13. Clinical features resembling myeloneuropathy along with the battery of biochemical tests often helps in establishing the correct diagnosis. Keywords: Myeloneuropathy, Posterolateral syndrome, Demyelination.

Introduction

Copper deficiency may lead to anaemia, neutropenia and ringed sideroblasts in the bone marrow3. Copper deficiency may also lead to myelopathy presenting with a spastic gait ataxia and sensory ataxia. It may also be associated with myopathy, demyelination, peripheral neuropathy. Increase in signal intensity in T2 weighed images that involve the dorsal column is seen in copper myeloneuropathy3. Nerve conduction studies may show varying degrees of peripheral neuropathy picture 15

Case Report

A 15 -year-old girl came to OPD with complaints of lower limb numbness and gait unsteadiness for 3 months. These symptoms rapidly worsened a week back and she lost the ability to ambulate and stand independently. Bowel, bladder and cognitive functions were normal. The patient's mental status, speech and language were normal. Cranial nerve examination were normal. Her distal lower limb muscles were weak comparatively than her proximal limb muscles. Deep tendon reflexes were brisk in the lower limbs. Joint position sense

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Lipid Pattern of Chronic Kidney Disease Patients on Hemodialysis and on Conservative Management- A Comparative Study

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Abstract

Introduction: Chronic renal failure (CRF) is an irreversible condition, which is indicated by significant reduction in glomerular filtration rate, or irreversible destruction of kidney tissue. I CRF is characterized by a wide variety of biochemical disturbances and numerous clinical symptoms and signs. Plasma cholesterol levels are usually normal in ureamia but elevated after renal transplantation. In renal failure, these abnormalities of carbohydrate and lipid metabolism presumably contribute to increased risk of atherogenesis, which may be troublesome in patients receiving long-term dialysis.8,9.

Thus the present study was conducted to compare the lipid profile in chronic kidney disease patients on regular hemodialysis and on conservative management

Materials and Methodology: A Hospital based case control study was conducted in Sri Manakula Vinayagar Medical College and Hospital, kalitheerthalkuppam for a period of 6 months, from May/2017 to October/2017. Patients who were diagnosed with Chronic Kidney Disease and admitted into the medical wards were included in the study. Patients with already known diabetes mellitus, ischemic heart disease, patients who had undergone coronary artery bypass graft, on lipid lowering drugs and history of alcohol consumption and smoking were excluded, from the study. Fasting lipid profiles of patients of chronic kidney disease on conservative management (group-I) and on hemodialysis (group-II) were compared.

Results: A total of 80 patients participated in the study. The mean age of the CRF patients was 53.25± 11.04 years. The mean age in our study among the group I participants (40) was 54.41± 10.86 years and in group II (40) it was found to be 51.87 ± 11.23 years. This study showed that total cholesterol, triglycerides, HDL, LDL, VLDL were significantly lower in the CRF patients on regular hemodialysis (p<0.05). Total cholesterol, triglycerides and VLDL were significantly higher among female gender with p value <0.05

Conclusion: Chronic kidney disease, due to its alteration in carbohydrate and lipid metabolism can lead on to increased atherogenesis and contribute to mortality. This necessitates the periodic monitoring and maintenance of lipid profiles within recommended range in CKD patients not on hemodialysis also.

Introduction

Chronic renal failure (CRF) is an irreversible condition, which is indicated by significant reduction in glomerular filtration rate, or irreversible destruction of kidney tissue. In renal failure, dyslipidemia contribute to increased risk

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Asymptomatic bacteriuria in patients with Type-2 Diabetes mellitus

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Abstract

Introduction: Asymptomatic bacteriuria is a common problem in patients with diabetes mellitus it is more common in females if untreated it leads to life threatening complications like pyelonephritis, emphysematous cystitis, perinephric abscess and renal papillary necrosis.

Objective: This study was conducted to know the prevalence and clinical profile of asymptomatic bacteriuria in patients with diabetes

Methodology: Type-2 DM patients with asymptomatic urinary tract infection was selected and urine culture, antibiotic sensitivity pattern was studied.

Results: Among 80 diabetics patients 46(57.5%) had asymptomatic bacteriuria. Escherichia coli were the most prevalent organism and was sensitive to Nitrofurantoin in 89.5% cases and meropenem in 68.4% cases.

Introduction

Diabetes mellitus is a common metabolic disorder characterised by variable degrees of insulin resistance, impaired insulin secretion and increased glucose production. According to WHO India had 69.2 million people living with diabetes in 2015. Nearly 98 million people in India may develop type-2 diabetes by 2030. Diabetes produces various complications like diabetic ketoacidosis. hyperosmolar hyperglycaemia, lactic acidosis, microvascular (neuropathy, nephropathy, and retinopathy) and macrovascular complication (cerebrovascular accident, cardiovascular disease, and peripheral vascular disease). Diabetic patients have an increased risk of infections, especially urinary

tract infection is the most frequent site. Urinary tract infection may be symptomatic and asymptomatic. Many urinary tract infections are asymptomatic and whether symptomatic urinary tract infections are preceded by asymptomatic bacteriuria. Urinary tract infections are likely to be more severe in diabetic than non-diabetic patients.

Asymptomatic bacteriuria is defined as >10³ colony forming unit (CFU) per ml of 1 or 2 bacterial species in clean voided midstream urine sample from an individual without symptoms of a urinary tract infection like dysuria, frequency, urgency, abdominal pain, and fever. Some studies showed that prevalence of ASB was detected in 33.2% of participants; 38.3% in diabetics and

Dr Mythreini B S et al JMSCR Volume 07 Issue 12 December 2019

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ORIGINAL RESEARCH PAPER

General Medicine

CORRELATION OF ACANTHOSIS NIGRICANS AND ACROCHORDONS WITH INSULIN RESISTANCE: A CASE CONTROL STUDY.

KEY WORDS: Acardonia nigricana, acrochosdora, instalia resistance, HOMA-IX

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adition: busilin resistance abown to be associated with and even precede conditions onlar diseases, diabetes mellibrated metabolic syndrome could be identified by outmeous markers of insulin resistance merely, Acanthosois series and Accordons

Objective: The sim was to assess the presence of outcome on lessons and relate with learning resistance.

Materials and methods: A total of 80 patients (40 cases and 40 controls) had their BMI, Wast Hip sate (WHS), lipid profile, fasting gincose levels and fasting insulin is well checked, HOMA-IX was calculated and correlation bed leading and insulin resistance was evaluated.

Results: The mean age of the participants was 44 years (range 20-70) with a female preponderance. The mean 356 in cases was 25.19 +4.1 and in costrols 23.60 + 2.5. This shows the significant riskby odds as foot 2.07 times. The mean WHX in cases showed the significant risk by odds ratio of 1.67 times. The mean total cholester dividue in cases with odds ratio of L13 and the mean LDL chickesterol value in cases with odds ratio of 1.76 showed a significant tisk. The mean HOMA-IX values in cases with odds ratio of 1.86 showed that individuals with HOMA-IX more than 1.7 have 1.88 times risk of developing skin lessons i.e. Acceptoses and Acceptor docs. Conduction: Van studyshows a significant risk association between skin lessons and instalin resistan

INTRODUCTION:

lasedia resistance is a metab disc decorder in which target cells fail to respond to normal levels of diroulating insulin, w in compensatory hyperinedinessis by the percents it cells. Insulin resistance syndrome denotes the cluster of absorpables that manifest in different factors leading to almormalities with serious dinical consequences, inclu cardiovascular disease and type2 dishetes mellitus polycystic every syndrome, non-alcoholic fatty liver disease, other illnesses like malignancies, metabolic syndrome X, accelerated atherosclerosis, systemic hypertension, and various outmeous lesions like Acanthosis suggictors at integral himselfion, were and popullosis of finger.

Acombosis signious (AN) is a demands distracterized by velvety, papillomatous, brownish-black, hyperkenstonic plaques bound typically on the intertriginous surfaces and urfaces and neck. The majority (80%) of AN occurs id opathosily or in benign conditions such as endocrinopathies like dishetes mellina polycystic ovary syntrome; metabolic syntrome and/othershipedisease Malignancy executioned AN is now. It is observed that most particular with Academia napricans have either directly or subdinion linear in resistance."

Acochordoss (skin tags) are small, soft, benign skin tumors that are seen most often on the sides of the neck or grain, and constantly on the thorse varying in diameter from I to dism. Deeps et al in their study on powerkence of hardin maintance syndrome in selected forth indian population- CUS-7 have shown that the overall prevalence of insulin resistance syndrome was 11.2%. Studies have shown that there is strong association between insulin resistance and multiple skin baps in expective of other risk factors, limitin resistance stimulates insulin recession, which in turn stimulates ICF-1 receptors of here incoy we leading to epidermal growth. So these cuts markers could be a sindicator of senior existence at a tra-

Inselin resistance is shown to be the basis for development of glucose intolescore including disbetes and Coronery artery

disease (CAD), hersita resistance has been detected 10 to 20 years before developing disbetes in individuals who are offspring of patients withtype 2 dis betes. This manifestations of Lassilla resistance (e.g., acrochordon, acanthous nigricuna, androgenetic alopecia, acue, historium) have shown to be to a reliable, easy and way of detecting invalin.

Rims and objectives: The objectives of the study are as follows:

- To detect the correlation between outspects leaders like (Acadhosis signicans and Acrochordons) with invitin
- 2) To relate severity of outsimous lesions with insulin

MATERIAL AND MET BODS:

The study was a hospital hased, case costrol (age and sex matched) study conducted in the outpotient departments of General medicine and Dermatology of Sri Manakula Vinayagar Medical College Fuducherry after classance from Research and ethical committee.

Atotal of 80 patients were included in the study 40 osses and 40 matrols. This study was conducted over a period of 12 months. Adult patients more than 18 years of age were included in the study after getting informed consent from the

Cas edefiaitios:

Cases were defined as patients with various grades of Aconthosis nigricous. The leatons of aconthosis nigricans were graded using a scale by Busing? etc. Tailents with arrechardens were graded by using a grading scale by Schema M. El Sebury of all using theourablet, size, site, and color of lessons." The grading of lessons was verified by a

Controldefin

Controls were defined as age and sex matched patients

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> Dr. KAGNE. R.N. SRI MANAKUDA VINAYAGAR MEDICAL COLLEGE & HOSHI'AL KALITHEERTHALKUPPAM. PUDUCHERRY-605107.

Original Article

Coronary risk prediction by the correlation of total cholesterol/high-density lipoprotein, triglyceride/high-density lipoprotein, low-density lipoprotein/high-density lipoprotein ratios, non-high-density lipoprotein, apolipoprotein-B, and high-sensitivity C-reactive protein with low-density lipoprotein in Indian patients under statin therapy

ABSTRACT

Background: Patients are treated with statins for the control of cholesterol; but statins control only low-density lipoprotein (LDL) and not non-high-density lipoprotein (non-HDL). Also, LDL is not a good coronary fisk predictor. That creates the necessity to find a better biomarker for future coronary risk prediction. Hence, biomarkers under this territory such as total cholesterol (TC)/HDL, LDL/HDL, triglyceride (TG)/HDL ratios, non-HDL, apolipoprotein-B (apo-B), and high-sensitivity G-reactive protein (ho-CRP) were to be assessed and correlated with LDL to find the better biomarker in Indian patients.

Objective: The objective was to study non-HDL, ape-B, TCHDL, TGHDL, LDLHDL, ratios, and hs-CRP in patients under statin therapy; and to correlate them with their LDL; to predict the risk of suture coronary events; and to identify which blomarker among them is better at detecting the same. Materials and Methods: This is a cross-sectional observational study performed by systematic random sampling among 87 patients under statin therapy, and the levels of LDL, TGHDL, LDLHDL, TGHDL ratios, non-HDL, spo-B, and hs-GRP were measured in such patients, and their correlation with optimized and unoptimized LDL groups were done. Continuous data were represented as mean and standard deviation, and P-value was calculated using independent it test or it test.

Results: Non-HDL, TC/HDL, and LDL/HDL ratios were found to be statistically significant – all three parameters with P < 0.0001 in predicting the coronary artery disease attacks in the future.

Conclusion: Even though all patients in our study were under statin therapy, they are still under the risk of developing coronary events. This can be solved by targeting the combol of non-HDL or TC/HDL or LDL/HDL ratios, as they are found be better blomarkers for future coronary risk prediction.

Keywords: Apolipoprotein-B, cholesterol, coronary artery disease, low-density lipoprotein, non-high-density lipoprotein, statin, total cholesterol/high-density lipoprotein, and low-density lipoprotein ratios

INTRODUCTION

Asian indians, whether living in India or elsewhere, have a higher incidence of developing coronary artery

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A study of role of interleukin-8 in differentiating transudative and exudative pleural effusion

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Abstract

Background: Differentiation between transadative and exudative effusion is considered the initial step in the etiological diagnosis of any pleural effusion. The differentiation is essential, since the treatment of underlying systemic cause is enough in transudative pleural effusion, whereas extensive investigations and treatment is required in exudative effusion. Recent studies have demonstrated the existence of a novel neutrophil activating peptide first named NAP-I, but subsequently renamed IL-8. Interleukin-8 being the mediator of local inflammation may help in the differentiation of transudates and exudates.

Methodology: This is a hospital based cross sectional study which included 70 patients with pleural effusion. After diagnosing pleural effusion, they were further divided into two categories, namely transudate and exudate based on Light's criteria.

The concentration of pleural fluid interleukin-8 was determined by an Enzyme Linked Immunosorbent Assay (ELISA) method by using

commercially available assay kits.

Statistical Analysis: All results are expressed as mean ± standard deviation (SD) for continuous variables and as frequencies for categorical variables. The difference in the age and gender between groups is disproved using independent student t-test and chi-square test, Mean pleural fluid Interleukin-8 level between the groups is analyzed using independent student t-test.

Results: The parameters in Light's criteria (pleural fluid protein and LDH) and Interleukin 8 were able to differentiate transactate from exudate and were found to be statistically significant with p value of < 0.001.

Conclusions: It is clear from our study that IL-8 can be used to diagnose and differentiate exudates from transadative pleural effusions with a good sensitivity and specificity.

Keywords: Pleural effusion, Interleukin 8, Exadative effusion, Transadative effusion, Empyema.

Introduction

In cases of pleural effusion, identifying the type is very important to arrive at the etiological cause. Transudative effusions are the to an imbalance between the hydrostatic and oncotic pressures in the systemic or pulmonary circulation. Exudates are produced by increased vascular permeability. Transudates are most often caused by heart failure (80%) and, to a lesser extent, by hepatic cirrhosis. In 80% of cases, the exudate is secondary to malignancy (secondary or primary), pneumonia, tuberculosis or viral pleuropericarditis [1,2].

Pleural effusions are classified as transudates or exudates by Light's criteria which has been in use for a long time. The differentiation is essential, since the treatment of underlying systemic cause is enough in transudative pleural effusion, whereas extensive investigations and treatment is required in exudative effusion. The sensitivity of Light's criteria is between 94% to 100% and specificity is 57% to 85%. In case of improper diagnosis or partial treatment, the uncomplicated pleural effusions can become a complicated, characterized by deposits of fibrin and microorganisms in the pleural fluid. So there has been search for a novel biomarker which can differentiate between transudates and exudates more accurately [3,4].

Recent studies have demonstrated the existence of a novel neutrophil activating peptide first named NAP-I but subsequently renamed IL-8. Interleukin-8 being the mediator of local inflammation may help in the differentiation of transudates and exudates. Levels in pleural effusion have been studied in very few researches. In view of achieving a specific diagnosis as well as to differentiate between transudates and exudates we would like to assess the role of IL-8 in pleural effusion [5-7]. The cut off values of IL-8 levels with different actiologies were detected from various studies as shown in table 1.

Table 1: Cut off values of IL-8 levels with different

Normal	5 pg/ ml
Exudative	3068.5+/- 1762.7
Parapheumonic effusion	1884.5 +/- 366.7
Tuberculosis	1420 +/- 1049
Malignancy	1574 +/- 1079
Transudates	108.8 +/- 92.0

Materials and Methods

This is a tertiary care hospital based cross sectional study which included 70 patients with pleural effusion. Patients were included in the study after getting informed consent from the patient and patient's attender. Also, an ethical committee approval was obtained Clinical history was elicited and physical examination was performed. Pleural effusion was confirmed based on the chest X-ray finding. USG thorax/CT thorax was taken if the effusion was loculated or minimal. After diagnosing pleural effusion, they were further divided into two categories, namely transudate and exudate based on Light's criteria. Pletral fluid was obtained by diagnostic pleural fluid aspiration (thoracentesis) after informed consent. Determination of biochemical

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Barriers to exclusive breast feeding, the missing links: a cross sectional study from Puducherry, India

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ABSTRACT

Background: Breast milk, the first natural food for a new-born, provides all the energy and essential nutrients an infant requires for the first 6 months of life. The NHFS 4 survey shows only 45.5% of children are exclusively breastfed (EBF) in Puducherry. This study aims at assessing the socio-demographic characteristics associated with exclusive breastfeeding in a tertiary hospital in Puducherry and identify the barriers in the promotion of exclusive

Methods: Community-based cross-sectional study at a tertiary hospital in Puducherry. Sample size: 115 mothers of 6 months to 2-year-old children, born term gestation with a birth weight of >2.5 kg, attending the Paediatric OPD. Questionnaire-based study comprising of socio-demographic and parameters pertaining to exclusive breast-feeding. Results: Only 44.3% of the mothers have exclusively breastfed in the first 6 months. Shorter duration of spacing between births and caesarean section had significant negative association with exclusive breast-feeding. Most of the mothers received postnatal counselling on breast-feeding (94%) of which 58% were by health care personnel. Despite that, only a sixth (19%) of them were well versed with proper breastfeeding techniques. Poor secretion (45.3%), sore/inverted nipple (23.5%) amounted to the most common of the barriers. Among working mothers, 42.9% attributed their jobs as the cause for early wearing

Conclusions: The prevalence of exclusive breastfeeding is still low even among a literate study group. There were no significant association with socio-demographic factors found, but lacunae were identified. A more objective postnatal counselling to mothers involving their caregivers may improve the current scenario.

Keywords: Barriers, Exclusive breastfeeding, Puducherry, Socio-demographic factors

INTRODUCTION

Breast milk, the first natural food for a new-born, provides all the energy and essential nutrients an infant requires for the first six months of life, half of the nutritive requirement for the next six months and thereon one-third of the requirement till two years of age, responsible for the infant's proper physiological growth and development is 'Exclusive Breastfeeding' (EBF) implies that nothing else is to be given to the baby except breast milk during the first six months of life.3 The WHO recommends exclusive breastfeeding for all new-born during the first six months of life.4

Breast-feeding, besides providing nutrition, energy, adequate sensory and cognitive development also protects the child from various infections and chronic diseases like obesity, type1/2 diabetes, leukemia and Sudden

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Case Report

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Langerhans cell histiocytosis presenting as isolated central diabetes insipidus in a 2-year-old child: a rare manifestation of rare disease

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ABSTRACT

Central diabetes insipidus, though uncommon in children, has varied causes, the commonest ones being genetic mutations, infiltrative disorders, infections Isolated central diabetes insipidus is not one of the often encountered conditions in the pediatric practice. Here we report a case of 2 ½ years old female child who presented to us following history of polyuria for 2 months, who was confirmed to have central diabetes insipidus which was later evaluated to be secondary to Langerhans cell histiocytosis. Magnetic resonance imaging (MRI) and histopathological studies further helped in confirmation of the diagnosis. Langerhans cell histiocytosis is a rare, multifarious, and underdiagnosed hematologic disease in which isolated diabetes insipidus can be the sole presenting feature before other manifestations. Hence, this diagnosis could strongly be considered in the work up of central diabetes insipidus in children.

Keywords: Children, Central diabetes insipidus, Langerhans cell histiocytosis

INTRODUCTION

Central diabetes insipidus (CDI) presents commonly secondary to infections like meningitis, post trauma or any neurosurgical intervention and this wide differential diagnosis substantiates the need for proper workup of this condition. Langerhans cell histiocytosis (LCH) is also an uncommon condition in children with a slight male preponderance. It can affect almost any organ and present with varied clinical manifestations. LCH may be associated with CDI during the course of the disease, however presenting as isolated Diabetes Insipidus (DI) as an inaugural manifestation is quite rare. A focused work up along with magnetic resonance imaging (MRI) modality with classical findings justify the involvement of the hypothalamic-pituitary axis leading to the aforesaid presentation. This supplemented with histopathological

evidence will help to confirm the diagnosis. Hence, authors report this case with such an isolated presentation, which was evaluated and diagnosed at our tertiary care center.

CASE REPORT

A 2 % years old female, first order child to nonconsanguineous parents was brought with polyuria, polydipsia and weight loss for 2 months. On examination she was moderately nourished, hydration was normal, heart rate-108/minute, respiratory rate-28/min, blood pressure-96/62 mm Hg. Systemic examination was normal. On investigation random blood sugar, urea, creatinine, scrum electrolytes, arterial blood gas analysis were normal. On further investigation urine osmolality was 85 mosm/L and scrum osmolality of 292 mosm/L. Since urine osmolality was much lower than scrum

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Journal of Clinical Toxicology

Chemical Pneumonitis Due to Accidental Ingestion of Liquid Mosquito Repellent Vaporizer: A Case Report

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Mosquito repellents are widely used as varied forms in endemic areas infested with mosquitoes. Most vaporizers contain pyrethroid compounds. Children due to their exploratory nature and their mouthing stage are prone for ingestion and poisoning. Much of the reviewed literature pertaining to pyrethroids is related to neurological ifestations. Volatile solvents usually present in commercial formulations may also enhance pyrethroid toxicity. To the best of author's knowledge, liquid mosquito repellent vaporizer (LMRV) manifesting only as respiratory lineas is uncommon, with this context, we report a two-year-old todder with an accidental ingestion of LMRV leading to chemical preumonitis.

Keywords: Child: Poisoning: Transfuthrin; Kerosene

Introduction

Liquid Mosquito Repellent Vaporizer (LMRV) is increasingly being used in areas endemic for vector borne diseases like malaria and dengue. Most vaporisers have transfluthrin and prallethrin, pyrethroids as repellents [1]. Suicidal or accidental ingestion is less commonly encountered of the few cases reported most common manifestations have been related to toxicity to central nervous system [2]. We report a case of 2-year-old who presented with chemical pneumonitia following accidental ingestion of LMRV.

A 2-year-old male child was brought to emergency department with history of accidental ingestion of measuate repellent at home. According to mother, child had consumed around 10 ml, one hour before admission. Immediately child had 2 episodes of vomiting followed by breathing difficulty.

At admission, child had a Glasgow come score 15/15, heart rate-102 BPM, respiratory rate-48/min, blood pressure-100/60 mm of Hg and caygon saturation at room air was 100%. ECG monitored using multipara monitor was normal. On examination of respiratory system, child had sub costal and inter costal retractions. Fine crepitations were noted on auscultation over right site of chest. Rest of the systemic examination was normal.

Child was admitted in pediatric intensive care unit and started on supportive treatment with intra venous fluids; antiemetic's and proton pump inhibitors. Gastric lavage was not done as the liquid vaporizer contained deodorised kerosene 97.12%. X-ray chest done after 6 hours showed bilateral pneumonitis (Figure 1). Hemogram done following admission showed Hb of 9.7, TLC-15500 with polymorphic predominance and platelets was 4,10,000. Liver function and renal function tests were done which was within normal range. Child developed fever after admission. But considering chemical

pneumonitis antibiotics were not started. (hild improved over next 48 hours with supportive care alone and then discharged.



Figure 1: X-ray showing bilateral pneumonitis.

Most LMR has pyrethroid derivatives as repellents and deodorised kerosene sa vaporizer. Our patient had consumed a commercial brand with 1.6% transflutherin.

Pyrethroids are established neurotoxicants with toxic effects on Na and (I) channels. They delay the closure of Na* channels and surge of Nat influx leads to excitation. They also decrease CI channel which is responsible for most neurotoxic effects of pyrethroids. At high concentrations, they act on GABA gated Cl'channel causing scizuro

Immediately after ingestion, nauses, vomiting and abdominal pain may occur. CNS effects include dizziness, headache, fatigue, coma and

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Prevailing pattern of feeding practices and malnutrition among infant and young children

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ABSTRACT

Background: Nutritional factors like breast feeding practices, wearing practices and diet during illness influence the growth and development of children. Recurrent infections are other important factors that lead to malnutrition.

Methods: This was a non-randomized prospective study using pretested, predesigned questionnaires. Study was done in a single centre to determine the pattern of feeding practices and malnutrition among infant and young children. This study was carried out in the Department of Paediatrics at Sri Manakula Vinayagar Medical College and hospital, Puducherry.

Results: Out of the 200 babies studied, 22% of the babies were exclusively breast fed and 5% of the babies were bottle fed. The remaining 73% of the babies were on both breasts feeding and bottle feeding. A 52% of children in the age group 6-12 months, 50% children under12-24 months and 52% of children >24 months were found to be malnourished according to WHO growth standards.

Conclusions: Quantity and quality of complementary feeds given is inadequate due to lake of awareness, fear and food stigmata. Hence feeding practices are far from satisfactory. Complementary feeding and wearing practice guidelines are better practiced as the age advances but their practice at a younger age would lead to a better outcome.

Keywords: Breast feeding, Complementary feeding, Infant, Malnutrition

INTRODUCTION

Optimum nutrition is essential for child survival and Quality of survival. The word nutrition is derived from nutricus which means "To suckle at the breast". Nutrition is defined as "The process by which the organism utilizes food".

It signifies the dynamic process in which the food that was consumed utilized for nourishing the body.² "Malnutrition is found to start in the womb and ends in the tomb".¹ Severe forms of malnutrition like marasmus and Kwashiorkor represent only a tip of the iceberg.² Many more suffer from moderate, mild (or) invisible

PEM malnutrition which increases morbidity and mortality.

Nutritional factors like breast feeding practices, wearing practices and diet during illness influence the growth and development of children. Recurrent infections are other important factors that lead to malnutrition. The aim of the study was to assess the breast-feeding practices of children up to 6 months, to know the continued breast-feeding practices beyond 6 months, to evaluate the complementary feeding pattern in young children, to compare the same with IMNCI guidelines, to correlate the feeding practices and nutritional status in various age groups.

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Iron deficiency anemia as a risk factor for simple febrile seizures in pediatric patients

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ABSTRACT

Background: Febrile seizure (FS) is the most common cause of seizure in children, occurring between 6-60 months. It coincides with peak age of incidence for Iron deficiency anemia (IDA). Iron is required for optimal growth and development and its deficiency is associated with numerous problems including persistent cognitive and motor delays. The objective was to study the role of IDA as a risk factor for simple febrile seizure and its recurrence

Methods: A case control study was conducted among 90 febrile children - 45 cases with simple febrile seizure and 45 cases with febrile illness, between the age group of six months to five years of age at Sri Manakula Vinayagar Medical College and Hospital, Pondicherry, between September 2013 and June 2015. The hematological parameters like Hemoglobin, Serum ferritin and RDW were compared between the two groups with respect to fever and different temperature intervals, recurrence of FS.

Results: Hb and Serum Ferritin levels were found to be significantly associated with simple febrile seizure, with p value of <0.002 and 0.001 respectively. Similar association was found at different temperature intervals. However, there was no association of hematological parameters with FS recurrence.

Conclusions: IDA is a significant risk factor for FS in children while same may not have any effect on the recurrence of FS.

Keywords: Iron deficiency anemia, Febrile seizures, S. Ferritin

INTRODUCTION

The International League Against Epilepsy has defined Febrile Seizure (FS) as a seizure occurring in childhood after one month of age, associated with a febrile illness not caused by an infection of the central nervous system, without previous neonatal seizures or a previous unprovoked seizure, and not meeting criteria for other acute symptomatic seizures.¹

Febrile seizures are the most common type of seizure and occur in 3-4% of all children below 5 years of age.² Majority of FS are Simple 70-75% whereas 9-35 % FS are complex.3 Frequency of simple febrile seizure in India is 10-17%, which is higher than the developed countries like Japan (9-10%), Western Europe and USA (2-7%) and in Guam (14%). *10

Febrile seizures are considered benign, but there is recent evidence that a small subset of children may have recurrent febrile seizure or develop epilepsy. The risk of later epilepsy after a simple febrile seizure is 2-7.5% and the risk of developing epilepsy after complex febrile seizure is about 10-20%. Recurrence of FS varies between 25-100% based on the number of risk factors involved. Both recurrent FS and Epilepsy are apparent life threatening events and carry a burden on the child's

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How safe are our children in our own homes? accidental ingestion in children: a 6 year retrospective study from a tertiary care centre

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ABSTRACT

Background: According to the World Health statistics, in 2016 more than 100000 deaths were caused due to unintentional poisonings. Children are vulnerable due to their smaller body surface area, an inherent behaviour of negation, curiosity in exploring their surroundings, their initial phallic stage where they tend to put any objects they come across into their mouth.

Methods: This study is a hospital based retrospective observational study where the records of all the children admitted due to poisoning, accidental or intentional from June 2012 to November 2018 were reviewed. All the children admitted due to food poisoning and idiosyncratic drug reactions were excluded from the study.

Results: A total of 203 cases of accidental ingestion were admitted during the study period, of which the majority of the patients were male children. The age group varied from 5 months to 14 years. Majority of the accidental ingestions were due to kerosene (108), followed by insecticides (25) and cleaning agents (20).

Conclusions: Poisoning in young children is unintentional and accidental; hence the introduction of safe child resistant containers should be encouraged in storing harmful chemicals. Knowledge about the chemicals, awareness about their hazardous effects and education of the care givers about safe storage would be the first step in the prevention of accidental ingestion. Establishment of a reporting system from all the health care centres and establishment of poison information system at all the levels is the need of the hour.

Keywords: Kerosene, Pediatric, Poisoning, Prevention

INTRODUCTION

Poison is defined by WHO as a substance that could cause harm to a living being, which could either be a result of bodily contact e.g., caustic, or due to absorption following ingestion, inhalation, or injection. According to the World Health statistics, more than 100,000 deaths in 2016 were due to unintentional poisonings. In the same year, WHO data states that unintentional poisoning in children less than 5 years caused more than 23,000 deaths. All Children are especially vulnerable to hazardous household chemicals. Their smaller body surface area, inherent negation behaviour, curiosity to explore their

surroundings, their initial phallic stage where they tend to put any objects they can find in their mouths, all these reasons require caregivers to be wary. Unsupervised and unattended children are most prone to the risk of accidental ingestion of toxic chemicals kept in the house. Acute poisoning from pesticides could often be fatal to children.

The actiology of poisoning and the type of agents vary not only with geographical area, but also with time. As new chemicals and products are discovered every day, they are introduced into markets for a variety of purposes. The type and severity of poisoning also depend on

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Evaluation of possum scoring system in patients undergoing laparotomy

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ABSTRACT

Background: Prediction of complications is an essential part of risk management in surgery. Knowing which patient is at risk of developing complications contributes to the quality of surgical care and cost reduction in surgery. Among the variety of scoring systems used to identify the "high risk" patient POSSUM scoring is the most widely used. Methods: Patients undergoing laparotomy were selected serially and their physiological severity score on admission and operative severity scored at the end of 30days and compared with the POSSUM predicted score. Results: In the elective surgery group, patients with morbidity correlated with high POSSUM scores but due to low overall morbidity conclusions could not be drawn while in the emergency group predicted morbidity correlated well with observed results. The low overall mortality in the study group precluded meaningful analysis.

Conclusions: POSSUM scoring system has an undeniable advantage in this set up for better patient counseling, improving the surgical outcomes in both emergency and elective wards and for better management of limited resources and manpower.

Keywords: Morbidity, Mortality, Outcome predictors, POSSUM, Scoring system

INTRODUCTION

This is an exciting time in medicine. The pace of risk management is an important health care issue. Prediction of complications is an essential part of risk management in surgery. Knowing which patient is at risk of developing complications contributes to the quality of surgical care and cost reduction in surgery. It is therefore essential to identify and make appropriate decision on those patients who are at high risk of developing serious complications. Physiological and operative severity score for the enumeration of mortality and morbidity (POSSUM) has been used to produce numerical estimate of expected mortality and morbidity after variety of surgical procedures. POSSUM is a patient risk prediction model based on 12 patient characteristics and 6 characteristics of the surgery performed. It can be used in hospital setting to provide educational information. It

integrates well in the existing hospital programs without t causing any disruptions of hospital activities. When other 1 scoring systems were compared with POSSUM, it was a shown that POSSUM results were much more useful in a predicting the outcome of surgery for patients. Various a studies with POSSUM in various countries with different! health systems and socio-economic status showed that t there was no change in POSSUM ability to predict! outcome of surgery. It was developed by Copeland GP et1 al, and has since been applied to several surgical groups a including orthopedic patients, vascular surgery (AAA,, carotid endarterectomy etc.), head and neck surgery and l GI/Colorectal surgery. 2.5 POSSUM is becoming more: widely used in the UK as surgical culture moves more: towards outcome measures and providing the patient with a as much information as possible to make fully informed? consent.8 Furthermore, a system that uses risk adjusted ! prediction is going to become an essential tool for clinical f

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Innovations in Ophthalmology

Trash to treasure Retcam

Prithvi Chandrakanth, Ramya Ravichandran, Naveen G Nischal, M Subhashini

Digital fundus imaging is being used in diagnosis, documentation, and sharing of many retinal diseases and hence forms an essential part of ophthalmology. The use of smartphones for the same has been ever increasing. There is a need for simpler devices to couple the 20D lens and smartphone so as to take fundus photographs which can help in fundus documentation. This article describes a simple inexpensive technique of preparing a smartphone fundus photography device (Trash To Treasure (T3) Retcam) from the used materials in the clinics within minutes. This article will also review the optical principles of the T3 Retcam and describe the step-by-step method to record good-quality retinal image/videos. This inexpensive device is made by recycling and modifying the plastic hand sanitizer bottle in the clinics/hospitals which can be used for documenting, diagnosing, screening, and academic purposes.

Key words: Fundus camera, innovation, low cost device, smartphone fundus photography, teleophthalmology

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Retiral imaging has been described since the late 19th century and ever since there has been a steady growth in the field of imaging the fundus of the eye. ^[1] It has become an essential part of ophthalmic practice and also is the standard method for documenting ocular findings. In a clinical setting this has been achieved by the fundus cameras: Mydriatic or normydriatic imaging systems which have helped clinicians to detect, diagnose, monitor, and share retinal images. ^[2] However, these instruments are not readily available in dircumstances, such as in the emergency rooms, intensive care units, or when the patient is immobile as most of these systems are bulky and stationary and hence the availability and high cost limit their routine use in ophthalmology. Portable cameras introduced for fundus imaging are often costly and must be connected to computers for processing and visualization and also for storage.

The ubiquitous smartphones have become an inexpensive alternative for fundus imaging when coupled with a condensing 20D lens. Smartphones equipped with high-resolution cameras are being used to take the anterior segment and fundus pictures. Smartphones have the potential to capture high-quality fundus photos as it incorporates an optical and illumination system in the form of a condensing lens and a source of light such as the light emitting diode (LED) flash which is coaxial. When this optical system is then coupled with the 20D condensing lens it resembles an indirect ophthalmoscopy optical system which allows us to record digital fundus images. To increase the ease and stability of taking a fundus photograph, we need to keep the smartphone and the condensing lens in alignment with a structural device.

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This structural support can be given by modifying the readily available used materials from the clinic which would otherwise be thrown into the waste bin. Here, we describe the method to create such a device within a few minutes and how to use it efficiently [Table 1 and Fig. 1].

Methods

Preparing the T3 Retcam

A used hand sanitizer bottle of 15-20 cm was taken. The 20 D lens was kept at the base of the bottle and an outer circular outline was marked. An inner circular outline was drawn such that it was 0.6 cm less than the diameter of the outer outline. The circles drawn were then divided into four quadrants (a, b, c, d). The outer circular outline area of panels a and c and the inner circular outline area of panels b and d was cut continuously which gave rise to flap like structures at area b and d. The flaps were folded inwards and the 20D lens was inserted into the circular hole made at the base of the bottle in a rotational manner. The next step was to attach the smartphone to the top of the bottle and align it. For this, an old phone case was taken with the smartphone in it and was aligned in a way that the 20D lens borders fit exactly into the screen of the smartphone in the camera mode. Once it was aligned the case was adhered on the bottle top using an instant adhesive such as superglue (cyanoacrylate)/Fevi kwik (Pidilite). The smartphone can also be alternatively placed on the bottle top using any of the several universal smartphone adapters in the market making the T3 Retcam universal to any smartphone. A black

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Innovation

Anterior segment photography with intraocular lens

Prithvi Chandrakanth, P Nallamuthu

Key words: Anterior segment photography, innovation, intraocular less, low-cost, smartphone photography

Smartphone photography has become essential in Ophthalmic practice and a standard way of recording ocular findings for documentation, expert opinion, academics, tele-ophthalmology and patient education. Put Anterior segment photography has been made possible using adapters which help fix the smartphone to the slit lamp or adapters with lens which can be fixed to the phone camera that are commercially available. Put This article describes a novel technique of taking Anterior Segment Photography with Intraocular lens (ASPI) [Figs. 1 and 2].

Preparing the ASPI

- 2 strips of 4 cm 2 cm hard chart paper/plastic sheet were cut
- A circular opening of 5 mm diameter was made on both the strips at one end using a No. 11 surgical blade
- The intraocular lens was placed on the opening of one strip by applying liquid adhesive over the haptics of the IOL (alternatively, double-sided tape can also be used to fix the IOL and the second strip in place)
- The second strip was then stuck on top of the IOL and the first strip so as to cover it
- This arrangement was then aligned on the smartphone camera with a Micropore/Cellotape
- The smartphone was then moved towards the patient to focus on the lesion and a still photograph or a video was recorded with the inbuilt flash or an external light source (torch)
- The images obtained were of high quality with high magnification and moreover, it is a device that can be made using materials available in the clinic/hospital [Figs. 3 and 4].

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Smartphones are beginning to play a major role as a medical diagnostic tool. They are simple, stable, affordable as well as being portable, with high storage capacity and wireless connectivity makes the ASPI an important tool for diagnosis and documentation in various setups such as clinics, hospitals, health centers, and camps.

Acknowledgements

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Pigure 1: (a) Materials required to propose the ASPI: (i). Hard chart paper/Plastic strip: $4 \text{ cm} \times 2 \text{ cm}$ (ii). IOL (iii). Liquid adhesive (iv). No. 11 Surgical blade (b) Making the 5 mm circular hole on the strip using the no. 11 surgical blade. (c) Fixing the IOL on the circular hole by applying Squid adhesive on the haptics. (d) and (e) Fixing the second strip on the first strip and IOL using adhesive. (f) Placing the ASPI on the Smartphone camera.

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Functional outcome of distal tibial fractures treated by stainless steel locking plates with minimally invasive plate Osteosynthesis in rural population: A prospective study

Dr. Kalyan Deepak Sreenivas, Dr. Justin Moses C and Dr. Khisan Kumar PN

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Introduction: Open reduction and plating of distal tibial fractures require extensive soft tissue dissection and periosteal stripping. Complications like infection, delayed union and non-union are common. Minimally invasive plate Osteosynthesis (MIPO) technique preserves soft tissue envelope, vascularity of fracture fragments and containment of fracture haematoms and provide biologically favourable environment for fracture healing.

Materials and methodic 20 patients of distal thial fractures treated with locking plate by MIPO technique between October 2015 and January 2017 were included in this prospective study. Analysed

using software SPSS version 24.0 Results: Mean average time to union is 15.2 weeks. Based on Tetery and Wiso scoring criteria, eighteen

patients (90%) had good and excellent results at 22 weeks with fracture union.

Conclusion: MIPO sechnique provides good healing and decreases the incidence of non-union and the need for hone grafting. This technique can be used in distal tibia fractures where nailing cannot be done. such as, fractures with small distal metaphysical fragments, coronal fractures, Commissited and intraarticular fractures.

Keywords: stainless steel locking plates, minimally invasive plate Osteosynthesis

The distal part of the tibia is superficial with less soft tissue coverage. Injuries to this region cause more morbidity due to compromised blood supply, soft tissue damage and involvement of the articular surface. With the increase in high velocity trauma resulting in more complex fracture patterns, the management of distal tibial fractures has become more challenging Fracture pattern, soft tissue injury and bone quality influence the selection of fixation technique [1]. External fixators can lead to inadequate reduction, malunion, non-union and pin tract infection [2]. Intramedullary nailing is not feasible because of short metaphyseal segment possibility of rotational and secondary malalignment [8]. Open reduction and plating needs extensive soft tissue dissection and periosteal stripping. Incidence of infection, delayed-union, and non-union is higher [4]. Minimally invasive plate Osteosynthesis (MIPO) technique offers biologic fixation with preservation of soft tissue, fracture haematoma and bone vascularity [3] Threaded heads of locking screws lock into the threads of the locking plate creating a fixed angle construct which is less prone to loosening. Anatomically contoured locking plate prevents malreduction and allows a better distribution of angular and axial load. Locking plate indirectly reduces and bridges the fracture without producing compressive forces on the bone (6). They have locking screw holes to fit cortical locking screws in the proximal and cancellous locking screws in the distal part of the plate to allow fixation of cortical and cancellous parts of tibia respectively. Separate plates are available for placement in the medial or lateral, left or right sides of the distal tibia in various shapes and sizes. The number of distal cancellous screw holes may vary with different manufacturers. The cortical screw holes are vertically oriented and the cancellous screw holes are horizontally oriented to increase the number of screw

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Original Article

Thyroid Dysfunction Among Patients with Depression in a Tertiary Care Hospital in Puducherry

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Abstract

Background: The association between depression and thyroid disorders are studied extensively but still remains disputable. Hence, the current study was designed to estimate the proportion of thyroid dysfunction among depressive patients and also to study their association. Material and Methods: This was a hospital based cross sectional study done in a tertiary care centre in rural Puducherry. Eighty eligible patients with depression of any severity were included. They were interviewed with structured pretested questionnaire. The Hamilton Depression Rating Scale was used to measure the level of severity of depression. Thyroid functions test was carried out. Ethical principles were adhered throughout the study. SPSS version 24.0 was used for analysis and Chi-square test was used to find out association between severity of depression and thyroid status. Results: Of 80 depressed participants 45% were more than 45 years, females (72.5%) were the maximum and so 35% were homemakers. Participants belonging to upper middle socio-economic class were the majority (42.5%) and 65% were from rural area. Of the study participants 60, (75%) had normal thyroid function tests, one (5%) had hyperthyroid state and the remaining 19 (95%) had hypothyroidism. Among the depressed patients 67.5% had mild to moderate depression and 32.5% had severe depression. Increasing age and hypothyroid status were statistically associated. Conclusions: Majority of the depressed patients had moderate level of severity and hypothyroidism was the most common thyroid abnormality identified. increasing age and hypothyroid status were associated with depression. Periodic screening of depressed patients for thyroid abnormality is recommended

Keywords: Association; Depression; Hypothyroid; Screening.

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Introduction

Depression is one of the most common mental illnesses causing significant impairment in standard of life globally. It is considered as the second leading cause of Disability Adjusted Life Years (DALYS) and has been ranked fourth of all dreadful health problems in the world by World

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Health Organization [1]. By 2020, it is expected to be the second largest killer after heart disease in all countries including India [2].

The etiology of depression is most frequently studied, but it is never ideally understood. There are various factors which predispose people to develop a depressive disorder. Many major/chronic medical illnesses also make individuals vulnerable

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Sexual Dysfunction among Men with Alcohol Dependence Syndrome in a Tertiary Care Hospital, Puducherry

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Abstract

Background: Alcohol is a depressant and using it regularly can dampen mood and cause sexual dysfunction on the longer run Many alcoholics often suffer from severe sexual problems as the result of their drinking. The objective of the study is to find out the prevalence and types of sexual dysfunctions among alcohol dependent patients.

Materials and Methods: A hospital based cross sectional study conducted in Puducherry during December 2016 to November 2017 among 81 males patients aged between 21 -50 years attending Psychiatry OPI with alcohol related problems using Sexual Dysfunction Checklist, framed by using Arizona Sexual Experience Questionnaire (ASEX) and the Diagnostic Criteria for Research (ICD-10) for sexual dysfunction.

Results: The mean age of the study participants is 33.3+6.66 years. About 40 percent of study population were between the age group of 30 and 40 years. Total Duration of alcohol dependence was 7.47+5.607 years. The prevalence of sexual dysfunction was found to be 67.90% among study population. The Erectile dysfunction and inability to have orgasm was found to be the most common sexual dysfunction among the alcohol dependent patients followed by arousal problem and low sexual desire.

Conclusion: Sexual dysfunction is highly prevalent in patients with alcohol dependence. Chronic alcohol use, severity of dependence, co-morbid substance dependence are all significant predictors of developing sexual dysfunctions. All patients with alcohol use should be routinely evaluated for sexual dysfunctions.

Keywords: Alcohol, Sexual Dysfunction, Alcohol Dependence.

Introduction

According to the world health report (2002) 8.9% of the total burden of the disease worldwide in 2000 was from the use of psychoactive substances.1 It is reported that 32% of men and 11% of women over the age of 15 consume

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Identification of subclinical cognitive impairment in chronic obstructive pulmonary disease using auditory P300 event related potential

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Abstract

Adequate cognitive functioning in chronic obstructive pulmonary disease (COPD) patients is essential to understand the nature of the disease, adherence to treatment, and for leading a better quality of life. While cognitive impairment in severe forms of COPD have been well documented, identification of subclinical cognitive impairment in stable COPD patients remains crue ial for planning prevention strategies. Hence the present study aimed to study and compare the cognitive function between the COPD patients, and normal individuals. The cognitive function was assessed in 42 stable COPD patients and 42 normal individuals with Mini Mental State Examination (MMSE), and auditory P300 event related potentials. Baseline characteristics and the cognitive parameters were compared between the COPD patients and the normal individuals, a p<0.05 was considered statistically sigmilicant. The latency of the P300 waves was significantly (p-00.05) prolonged (304.27±20.73 in COPD, 291.11±24.53 in normal individuals), and the amplitude (4.36±1.56 in COPD, 5.46±3.12 in normal individuals) was significantly reduced in the COPD patients compared to the normal individuals. MMSE source were also significantly (p<0.001) different between the

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Contributions All authors contributed equally.

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Key wer de Cognition; COPD; MMSE; P300.

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COPD patients (26.97±0.89), and the normal individuals (27.80±0.83). Cognition may be affected even at the earlier stages of the disease among the COPD patients, as evident by changes in the P300 values. Auditory P300 event related potential may be used as an adjunct to the routine MMSE examination, as it serves as an effective tool in identifying the cognitive impairment in different stages of COPD. This may help the patients to adopt prevention strategies that help to avoid adverse effects on cognition in fature.

Introduction

Chronic obstructive pulmonery disease (COPD) may be considered as a complex disorder a seociated with several systemic consequences, and comorbidities [1]. Understanding and identification of the comorbidities in COPD may help to recognize the pattern of the disease, and in planning interventional strategies. Adequate cognitive functioning in patients is essential to understand the nature of the disease, adherence to treatment, and for leading a better quality of life. Organized by function may also be associated with increased morbidity and mortality. There has been increased recognition of cognitive impairment in patients with severe COPD in the past few years [2,3]. Hypoxemia, systemic inflammation, associated comorbidities like smoking, and at versal other factors have been linked with cognitive dysfunction in COPD [4].

Literature search on cognitive functioning in COPD patients revealed conflicting results. While some studies identified cognitive impairment in end stages of COPD [5], and during acute exacebations [6], few studies identified naild cognitive impairment even in non-hypoxemic stable COPD patients [7]. Hence degree of cognitive dysfunction in different stages of COPD need to be explored. Prior studies that studied cognitive function in COPD patients relied on MMSE mini-mental state era ministion (MMSE), and other battery of tests, which are well known to be influenced by several confounding factors [8,9].

Event related potentials are the voltage changes induced within the brain in response to a variety of sensory, motor and cognitive processes. P300 is a long latency endogenous cortically generated positive wave form of saditory event related potential, with maximum peak around 300 milliseconds, post stimulus [10,11]. It is widely recognized as a valid tool in assessing the cognitive function. The changes in P300 amplitude reflect the nature of information processing and P300 latency is related with cognition ability, and attention. Unlike other psychometric tests, event related potentials are not influenced by personality traits, or education-

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Malignant bronchial ulcer with coexistent pulmonary tuberculosis

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Abstract

Ulceration in the bronchial mucosa is noted neely in bronchoscopy. In the past, it was frequently encountered in endobranchial tuberculosis. Deep nocrotic bronchial ulc ess are seen very narely in clinical practice. Here we are reporting a first-over case report of malignant bronchial ulcer presenting as necrotic deep bronchial ulcer, in a 70-year-old male, chronic smaker, who complained of breathlessness for 3 months, cough for 3 months, loss of weight and of appetite for 1 month. Bronchoscopy showed a large necrotic ulcer with dense anthracotic pigmentation which bloods in touch with forceps. Bronchial washings, brushings, endobronchial biopsy were taken from the ulcer which was suggestive of poorly differentiated bronchagenic careinoma. TBN A from the mediastinal nodes showed the features of easons necrosis with granulomatous information. Consequently, with the diagnosis of peoply differentissed carcinoma with pulmonary tuberculosis and COPD, the patient was started on anti-tuberculosis drugs, inhaled branche dilators and referred to an oncologist for chemotherapy.

Introduction

Ulconations in the broachial mucosa are not common in broachescopy, unlike in endobroachial taberculosis, besides ulcors in those conditions are usually superficial. Similar superficial ulconations of broachial mucosa were noted in patients with adult varicella programatia, which presents with deep broachial ulcors and is a soci-

Correspondence: Yuvarajan Sivagramame, Department of Respiratory Medicine, Sri Manulcule Virayagar Medical College and Hospital, Room no. 99, Kalish certhaloapp am, Madagachpet, Padacherry 605107, India. Mobile, 191.9789156785.

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Key words: Malignant bronchial ulost; pulmonary TB; bronch ogenic carcinoma.

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This article is digit build under the terms of the Creative Commons Attribution Noncommercial License (by no 4.0) which permits any noncommercial use, distribution, and reproduction in any medium, provided the original author(s) and source are credited. ated with poor prognosis [1], deep alons were also noted in patients with Wegener's granulomatosis [2] (Table 1). Here, we are reporting a first-ever rare case report in literature of bronchogenic careinoma presenting with a deep accretic bronchial allor on bronchoscopy.

Case Report

A 70-year-old male, chronic smoker with a history of 30 pack/years, came to our hospital with main complaints of breath-lessness for 3 months, cough for 3 months, loss of weight and appetite for 1 month, Initially, he was evaluated by a general practitioner, with chest radiograph and basic blood investigations.

The patient was admitted in our hospital and investigated farther. Chest radiograph showed diffuse heterogeneous opacity involving bilateral lang fields with blunting of costophrenic angles and fastened displicagn. Head investigations were within normal limits except for leakacytosis with polymorph predominance. Sputum direct smear for acid fast bacilli was negative. Sputum gram stain showed gram positive cocci in chains.

Computed temography of chest was done which showed nodular lesions in right upper lobe with fibrotic strands in the apex along with medomly distributed nodules with few mediactinal necessic lymph nodes. Persboundhial thickening at the level of brenchus intermedius was also noted.

Then, a diagnostic broachoscopy was performed, which showed large necrofic ulcer with dense anthracotic pigmentation and unhealthy bronchial mucosa at the right secondary carina which bloods on touch with forceps. Branchial washings, bushings, endobroachial biopsy were taken from the ulcer. Broachial washbrash cytology showed highly cellular smear composed of many reactive branchial epithelial cells and atypical cells. The atypical cells are round to oval arranged in cohesive clusters and shoets with overlapping nuclei, attempted resented with glandular pattern and scattered single cells suggestive of poorly differentiated bronchogenic careinoma. Conventional Transbronchial needle aspiration (THNA) from the mediastical nodes in subcarinal station showed the features of caseous necrosis with granulomatous in formulation and the cartridge based nucleic acid amplification test (CBNAAT) was positive for Mycobacterium Taberculoris. Hence, with the diagnosis of poorly differentiated carcinoms with pulmonary tuberculosis, the patient was started on anti-tuber calosis drugs on a daily regimen (rifampioin 450 mg, isoniazid 300 mg, pyrazinamide 1500 mg, ethambutel 1200 mg) and referred to an encologist for chemotherapy.

Discussion

The consistence of pulmonary TB arithmentogenic carcinoma was first reported by Bayle in 1810 [3]. The simulational develop-



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Study of syndromic management of sexually transmitted infections in women of reproductive age at a tertiary care hospital in Tamil Nadu, India

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Abstract

Background: Sexually transmitted infections (STI) rank among the top five conditions for which sexually active adults seek health care in the developing countries. The disease prevalence is about 6% in India. Syndromic management remains the core intervention in the WHO strategy in resource poor setting were laboratory services are not available. This study was done to determine the effectiveness of syndromic management of STIs in women of reproductive age [15-49 years] attending gynaec outpatient block at Institute of Obstetrics and Gynaecology (IOG), Chennai. Methods: It is a prospective analytical study where 500 women of reproductive age symptomatic for STI were studied. A well-structured proforma was prepared for selection of women, history and examination. Based on the findings they were classified into STI syndromes and color-coded kits were given accordingly. Follow-up of patients was done to assess the effectiveness of treatment. Results: Overall there was 84.8% good response to Syndromic management. The follow up rate was 85.6%. Vaginal discharge syndrome was the commonest syndrome followed by lower abdomen pain syndrome. Conclusion: STIs cause major health problem and it is important to diagnose and treat them at the earliest. Syndromic management is definitely an effective tool to manage STIs particularly in low resource settings.

Keywords: Sexually transmitted infections, Syndromic management, Bacterial vaginosis

Introduction

Sexually transmitted infections (STI) are prevalent worldwide. Presence of a STI/RTI (Reproductive tract infections) in the sexual partner increases the risk of acquisition of HIV from an infected partner by 8-10fold. Effective control of STI/RTI is a strong and most cost-effective strategy for reducing the transmission of HIV. In 1991, Syndromic management approach was

developed by World Health Organization (WHO) to address the limitation of etiological and presumptive diagnosis of STI. The syndromic management is an approach wherein the health care providers diagnose and treat patients on the basis of certain groups of symptoms and signs rather than those for specific STI.

The Need for Syndromic Management

Due to non-availability of skilled and experienced persons at health centres to identify the infections and because of the expensive nature of sophisticated equipment's, which is not available everywhere, it is lakely to miss infections. Missed infections are left untreated. Because of the time-consuming nature of the diagnostics tests there is a delay in starting treatment. In addition, there is only 50% chance of diagnosing infections. Lack of diagnosing the STI and initiating treatment for STI at the prompt time will lead to continuous transmission of infections. Complications will follow and the sequele of STI will remain forever. All these factors lead to the evolution of Syndromic management.

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Study of syndromic management of sexually transmitted infections in women of reproductive age at a tertiary care hospital in Tamil Nadu, India

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Abstract

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Introduction

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Obs Gyne Review: Journal of Obstetrics and Gynecology

Clinical profile of pregnant women with community acquired pneumonia attending tertiary care hospital

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Abstract

Introduction: Community acquired pneumonia (CAP) is recognized as a common problem that carries a substantial morbidity and mortality in preantibiotic era. With the advent of newer diagnosities and advanced antimicrobials there is reduction in morbidity and mortality, but in era of MDR pathogens its often difficult and challenging to manage CAP. However, pneumonia in younger individuals can be severe and fatal. Pneumonia in the pregnant patient is the most frequent cause of life threatening non-obstetric infection.

Aims and Objective: The aim of this study was to assess the pattern of community acquired pneumonia among pregnant women in tertiary care hospital

Materials and Method: 32 pregnant ladies presented with signs, symptoms & radiological findings consistent with community acquired pneumonia were selected from out patient's clinics of obstetrics and gynecology department.

Results: The present study included 32 pregnant ladies with community acquired pneumonia, who were selected from out patient's clinics of obstetrics and gynecology department. Their ages ranged from 20–40 years old with mean age of 25.32 years old (±4.20 SD). Cough (90%) was the most common symptom followed by fever (70%) among the patients. Chest x ray done with abdominal shield showed pulmorary infiltrates in (65%). The most common radiological findings are consolidation (75%) nodular infiltrates (20%), cavity (3%), pleural effusion (2%). The most common organisms isolated were streptococcus pneumonia, hemophilus influenza, staphylococcus aureus mycobacterium taberculosis.

Conclusion: Morbidity and mortality in pregnant patients with pneumonia continue to pose a significant challenge. Early recognition of the diseases process and appropriate antibiotic treatment are required to ascertain an optimal outcome. The treatments in the gravid patients generally follow standard guide lines for the treatment of pneumonia in adults. Concern for fetal outcome should not delay any treatment strategies as improvement in maternal oxygenation and status is the best way to ensure fetal protection.

Keywords: Pneumonia, Pregnancy.

Introduction

Community acquired pneumonia (CAP) is recognized as a common problem that carries a substantial morbidity and mortality in preantibiotic era. With the advent newer diagnosities and advanced antimicrobials there is reduction in morbidity and mortality but in era of MDR pathogens its often difficult and challenging to manage CAP. CAP usually affects people at the extremes of age and while the occurrence of CAP in young adults is uncommon. However, pneumonia in younger individuals can be severe and fatal. Pneumonia in the pregnant patient is the most frequent cause of fatal non-obstetric infection.

Considering the potential teratogenicity of radiography and drugs, both patients and their physicians tend to postpone radiation examinations and medical treatment when pneumonia is suspected. As a result, delayed diagnoses and referral are common in patients with pneumonia complicating pregnancy. Several physiological and immunological changes that are experienced during pregnancy, such as altered T lymphocyte immunity, increased oxygen consumption, decreased functional residual capacity, decreased chest compliance, and increased risk of aspiration, may predispose pregnant

women to a more severe course of pneumonia, which may result in greater maternal and fetal morbidity and mortality."

Alterations in cellular immunity have been widely reported and are aimed primarily at protecting the fetus from the mother. These changes include decreased lymphocyte proliferative response, especially in the second and third trimesters, decreased natural killer cell activity, changes in T cell populations with a decrease in numbers of circulating helper T cells, reduced lymphocyte cytotoxic activity, and production by the trophoblast of substances that could block maternal recognition of fetal major histocompatibility antigens.

Often there are difficulties in diagnosis of CAP during pregnancy reflect the complexity of differentiating between symptoms related to physiological changes and more simister symptoms of disease. Patients themselves may attribute symptoms of pneumonia to pregnancy and hence usually present late to the clinicians. Chest discomfort may also occur in the later stages of pregnancy, possibly due to the mechanical effects of the uterus on the diaphragm. It may be difficult to distinguish it from other causes of chest discomfort.⁶

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Study on the utility of serum uric acid to creatinine ratio in the management of patients with chronic obstructive pulmonary disease (COPD)

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Abstract

Background: Chronic Obstructive Pulmonary Disease (COPD), is preventable and treatable disease which poses significant public health challenge. The impact of COPD on an individual patient doesn't depend solely on the severity of airway obstruction, but also on the progression of clinical symptoms. A significant number of COPD patients suffer from tissue hypoxia and impaired oxidative metabolism. Hence this study was done to assess the progression of the disease by measuring the level of serum uric acid (UA) and serum uric acid to creatinine ratio (UA/Cr) in these patients.

Methodology: This hospital based cross sectional study was carried out in the department of Respiratory Medicine, in a tertiary care hospital from September 2017 to December 2018 on sixty COPD patients. Serum uric acid and creatinine were assessed with the Uricase and Modified

laffe's method respectively. Finally serum uric acid creatinine ratio was calculated

Results: The mean level of serum uric acid (UA) in COPD patients with mild, moderate, severe and very severe obstruction were 2.62(mg/dl), 3.81(mg/dl), 4.53(mg/dl) and 5.72(mg/dl) respectively. The levels of serum uric acid to creatinine ratio in patients with mild, moderate, severe and very severe obstruction were in the mean of 2.24, 3.60, 5.12, and 8.12 respectively. Thus, both serum uric acid levels and serum uric acid to creatinine ratio increased with increase in the severity of airflow obstruction in patients with stable COPD which was statistically significant (p<0.005).

Conclusions: Thus, the levels of serum uric acid and serum UA/Cr ratio is raised in stable COPD patients and correlates with severity of airway obstruction. Thus serum UA/Cr ratio can be a useful marker to monitor the disease severity in addition to spirometric parameters like

FVC, FEV1 and FEV1/FVC.

Keywords: Serum uric acid, Serum uric acid creatinine ratio, COPD.

Introduction

Chronic Obstructive Pulmonary Disease (COPD), is preventable and treatable disease which poses significant public health challenge. Globally, the number of COPD patients has been showing increasing trend because of continued exposure to COPD risk factors and aging of the population [1]. (Global initiative, 2015)

The report published by the Maharashtra State Health Resource Centre states that, COPD is the leading cause of death in Maharashtra, more than Ischemic Heart Disease, Stroke, Diabetes Mellitus all taken together [2,3]. In one of the pioneering studies in India, a large multi-centric general population based survey was undertaken using a structured questionnaire in adults (aged more than 35 years) and discovered that the prevalence of COPD was 4.1% with a prevalence of 5% in males and 3.2% in females [4].

GOLD guidelines insisted on performing sprometry to make the diagnosts of COPD in a clinical context, where the presence of a post bronchodilator FEV₁ / FVC is less than 0.70. In addition to it, there are certain key indicators that GOLD lays down especially in a patient who is above forty years of age. These key indicators include, persistent dyspnea that is characteristically worse with exercise, chronic cough that may be intermittent and non-productive are the prominent indicators. Chronic sputum production is the third indicator [5]. A history of exposure to risk factors like tobacco smoke (that includes popular local preparations also) or smoke from home cooking and heating fuels or

occupational dusts and chemicals is yet another key indicator

Most of the patients with COPD suffer from tissue hypoxia and impaired oxidative metabolism. Hence this study was proposed to assess the progression of the disease by measuring the level of serum uric acid (UA) and serum uric acid to creatinine ratio (UA/Cr) in these patients. Serum UA, being the final product of purine degradation. Serum UA has been proposed as a marker for impaired oxidative metabolism [6]. However, serum UA levels are also altered by factors such as sex, body mass index (BMI), alcoholism, blood pressure (BP), and renal function, as indicated by serum creatinine concentration [7]. Therefore, a study was undertaken to assess whether the presence of higher values of serum UA and serum UA to creatinine ratio (UA/Cr) are associated with clinical or functional characteristics in patients with COPD.

Materials and Methods

This hospital based cross sectional study was carried out in the department of Respiratory Medicine in a tertiary care hospital from September 2017 to December 2018 on sixty COPD patients (sample size was calculated based on the prevalence and study subjects from the previous study using free cal software) [6]. This study was carried after approval from the institutional ethics committee.

Patients with symptoms of chronic cough and breathlessness were subjected to spirometry after ruling our

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LJBCP International Journal of Basic & Clinical Pharmacology

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Original Research Article

A retrospective analysis of acute poisoning cases admitted to a tertiary care hospital in South India

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ABSTRACT

Background: Acute poisoning is a medical emergency and a global public health problem. The poisoning pattern varies across countries and even between different regions within a country. The aim of this was to explore the demographic, etiological, and clinical characteristics of acute poisoning cases admitted to a tertiary care hospital in Puducherry, South India.

Methods: This was a retrospective hospital record based study of acute poisoning cases admitted to our hospital during the period from January 2015 to December 2017. The patients' demographic, etiological and clinical characteristics were analyzed.

Results: Of the total of 275 cases of acute poisoning, majority of them were in the age group of 21-30 years (32%) and were females (58.5%). Most of the cases were suicidal in nature (75.3%). Majority of the patients consumed a single poisonous agent (92.7%) and the route of poisoning was oral in all of them. Majority of the patients (56.7%) reached the hospital within 2 hours of exposure to the poison with median duration of hospital stay of 2 days, and mortality of 2.9%. Majority of the suicidal poisonings were associated with abuse of insecticides (39.4%), rodenticides (19.7%) and plant seeds (14.4%), whereas the accidental poisonings were mostly due to household agents (79.1%).

Conclusions: Our study shows that the majority of the poisoning cases occurred with a single poisonous agent consumed orally, for suicidal purposes in young age group and women. Pesticides and plant seeds were commonly abused for committing suicides and household agents dominated the list of causes for accidental poisoning.

Keywords: Acute poisoning, Emergency, Pesticides, Suicide

INTRODUCTION

Acute poisoning is a medical emergency and is a common problem worldwide. Poison is a substance that causes injury to the body or causes death, when administered by any route. Acute poisoning refers to exposure to the poisonous substance within a period of less than 24 hours. In India, the incidence of poisoning cases is found to be increasing every year. The average incidence of acute poisoning cases was 1.60 per 1000 population, while the average case fatality rate and

mortality rates were 40.51 and 0.07, respectively in a tertiary care hospital in South India 2

The most common cause of acute poisoning in south India is organophosphorous poisoning. ^{3,4} Other common cause of poisoning includes poisoning with yellow oleander, tablets (paracetamol and sedatives), corrosives, rat killer, organocarbamate, datura and phenol. ³ The intention for acute poisonings could be suicidal or accidental Majority of the cases encountered in a tertiary care hospital in South India were due to suicidal intentions. ³ In another study it was found that the most

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SRI MANAKULA WIAYACAR MEDICAL COLLEGE HC-5-11AL KALITHEERTHALKUPPAM.

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ACHONDROPLASIA- A RARE CASE REPORT

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PRESENTATION OF CASE

A 29-year-old female patient, G2P1L1 of 32 weeks' gestation, who has not attended any antenatal clinic, presented with premature rupture of membrane, to the Department of Obstetrics and Gynaecology, delivered a still born female baby with bilateral short upper and lower limbs, proptosis, depressed assail bridge, short neck, narrow thoracic cage, protuberant abdomen and redundant skin folds (Figure 1). There was no significant family history or consangulaeous marriage. No history of any infection and drug intake during the gestation period. She had delivered a normal male haby in the same institute in 2013.

DIFFERENTIAL DIAGNOSIS

- Thanatophoric Dysplasia.
- Homozygous Achondrophsia.
- Osteogenesis Imperfects.
- Achondrogenests.

CLINICAL DIAGNOSIS

The baby was disgnosed as a case of Achondrogenesis (AG) with clinical presentation of micromelia, short trunk and protuberant abdomen. Postnatal X-ray and CT Scan was done to visualize the morphology of the limb bones and other associated anomalies. Normal ossifications of cranial bones were noted. Both upper and lower limb bones were short. Femur was very short, broad with metaphyseal cupping, platyspondyly vertebral bodies, abnormal scapula with short ribs were observed. Absence of ossification of sacrum, ischia and publis was observed (Figure 2).

PATHOLOGICAL DISCUSSION

Histopathologically, the physical growth zone in both AG I and II shows severe retardation and disorganisation. The resting cartilage of AG IA has large PAS-positive disstance-resistant spherical or oval chondrocytic inclusions in membrane bound vacuoles. But AG IB has unusual perichondrocytic collagen rings which are strongly reactive with silver methenamine, trichrome or toluidine blue stain with absent intervening matrix, due to decrease of type II collagen.

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The histopathological changes of the resting cartilage are characteristic with significant deficiency of matrix and markedly enlarged lacunae. Cartilage canals are markedly enlarged, stellate in shape and fibrotic. Immunohistochemical studies reveal the predominant collagen of cartilage is type I rather than type II which is normally found, confirming that it is a disorder of type II collagen biosynthesis.*



Figure 1. Still Born Baby with Micromelia, Short Trunk and Protuberant Abdomen



Figure 2. Image of CT Scan Showing Short Femur with Metaphy scal Cupping with Absence of Ossification of Sacrum, Ischia and Pubis

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Cerebral Proliferative Angiopathy- A Rare Case Report

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Dr Madhumita Chandrasekaran

Abstract

Cerebral proliferate angiopathy is a rare congenital vascular maiformation due to anomalous cerebral angiogenesis causing abnormal cerebral vascular architecture, which differ from other classical arterio venous maiformations. Here we report a case cerebral proliferative angiopathy in a 42 years old male patient which seizure disorder and left hemiparesis. It is essential now to recognize this entity to avoid aggressive treatment or intervention thus we can achieve better prognosis.

Case Report

A 42year old male patient presented with multiple episodes of seizure for past 15 years which is aggravated for past 3 months. Past medial history of cerebrovascular accident 5 year back with left hemi paresis. Patient is also on treatment for diabetes and hypertension. No detectable skin lesion. There is no significant family history of AVM. Laboratory investigations were unremarkable.

Imaging findings:

Non-contrast computed tomography of the brain performed to evaluated seizure disorder reveled multiple dilated tortuous vessels in left side of perimesencephalic cistern extending into quadrigeminal cistern these vessels are causing compression and displacement of mid brain. Area of gliosis noted in right parietal region. Multiple foci of serpingenous calcification seen in bilateral cerebral hemispheres in both supratentorial and

infratentorial parenchyma. They are predominantly located in right parietal region in a gyriform pattern.

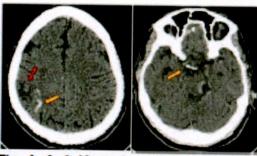


Fig: 1 & 2 Non enhanced CT axial image showing tortuous hyperdense lesion (yellow arrow) seen in cerebral hemisphere, left CP angle and ambient cisterns, (left image) foci of gliosis in the right parieto - temporal region (red arrow).

Contrast enhanced computed tomography imaging demonstrated dilated tortuous pial and intra

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Original Article

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Morphometry of the Uncinate Process, Vertebral Body, and Lamina of the C3–7 Vertebrae Relevant to Cervical Spine Surgery

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Objective: The cervical spine consists of 4 typical and 3 atypical vertebrae. The uncinate process is one of the unique features of the cervical vertebrae. Uncinectomy and uncoforaminotomy are widely used to decompress the nerve in the intervertebral foramen and to remove osteophytes from the uncinate process. Morphometric analyses of the uncinate process help spine surgeons obtain a 3-dimensional orientation for approaching the cervical spine with minimal risk to the surrounding vascular and neural structures. This study aims to analyze the morphometry of uncinate process of cervical vertebrae with relevant to cervical spine surgery.

Methods: Eighty dry adult cervical vertebrae were studied, and 11 parameters were measured. Seven parameters were paired and 4 were unpaired.

Results: The height of the unchrate process progressively increased from C3 to C6 and decreased at C7. The length of the unchrate process increased from C3 to C6-7. The width was greatest at C6 and smallest at C3. The vertebral body width and anteroposterior diameter gradually increased from C3 to C7. The parameters of the lamina also increased from C3 to C7.

Conclusion: Precise knowledge about the cervical vertebrae is useful for diagnosing both common and uncommon causes of symptoms and for choosing an appropriate approach. Thus, it helps to increase the success rate of cervical surgery.

Keywords: Cervical vertebrae, Morphometry, Uncinate process

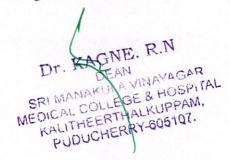
INTRODUCTION

The axial skeleton of neck comprises 7 cervical vertebrae. Out of which, 4 vertebrae (C3-6) are typical and 3 vertebrae (C1, C2, and C7) are atypical. Each typical vertebra consists of vertebral body and the neural arch formed by pedicles, articulating processes, laminae and spinous process.

Uncinate process is a bony projection, also known as "eminentia costaria, processus uncinatus," present on the posterolateral margin of the superior surface of lower cervical vertebrae (C3-7) which encroach on the inferior surface of the above vertebra to form unco-vertebral joint (UVI) or Luschka joint. The UV) forms the medial boundary of the vertebral foramen. The uncinate process was classified into 3 types based on the encroachment over adjacent intervertebral foramen. Type I – Uncinate process does not encroach upon the adjacent intervertebral foramen. Type II – encroach upon adjacent foramen without deformation. Type III – encroach upon adjacent foramen with deformation of uncinate process. So, the type of uncinate process can also be an uncommon cause of radiculopathy. In such cases, it carries the importance during manipulation of uncinate process in spine procedure.

Morphological characteristics of cervical vertebrae are an important factor for maintaining the normal cervical lordosis and

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Radiology Section

Correlation of Carotid Artery Doppler with Risk Factors and Computed Tomography Brain in Patients with Ischemic Cerebrovascular Accident

R CHITRAH', S SWARANJINE', D PADMAREKA', A UMAMAGESWARI', P ELAMPARIDHP, R SIBHTHRAM

ABSTRACT

Introduction: Ischemic Cerebrovascular Accident (CVA) is a leading cause of morbidity and mortality in the world. Atherosclerosis of blood vessels supplying the brain is one of the common reasons. The risk of patients with stroke due to atherosclerosis is closely associated with severity of the luminal stenosis. Carotid sonography without preoperative anglography is becoming increasingly common before carotid endarterectomy.

Alm: To correlate carotid artery Doppler and Computed Tomography- Brain findings in patients with ischemic CVA and also to correlate carotid Doppler with individual risk factors for carotid artery disease in South Indian population.

Materials and Methods: This study was designed to evaluate patients with (Transient ischemic Attack) TIA and ischemic CVA in 100 patients presented to hospital. Risk factors like hypertension, diabetes, smoking, hyperlipidemia, alcohol consumption, heart disease, previous history and present CT findings were recorded. Intima media thickness, plaque morphology, percentage of stenosis, luminal colour flow, the systolic and diastolic velocities were also calculated and recorded. Results: In the present study there was a significant association (p-value of 0.001) between size of interest and amount of stenosis in internal Carotid Artery (ICA). There was also significant association (with p-value < 0.06) in risk factors profile among stroke and TIA subjects with respect to hypertension, smoking, alcohol, hyperlipidemia and previous history of stroke. There was significant association (p-value of 0.013) between plaque characterization and stroke/TIA. Most common characteristic of plaque was soft in both the groups. Most common site of plaque among stroke was right ICA and in TIA was Left bulb respectively.

Conclusion: There was high prevalence of carotid artery disease as evidenced by increased intima media thickness, plaques and significant stenosis of ICA as detected by colour doppler examination for stroke and TIA patients in this study. Also large intercts in CT were seen in patients with significant stenosis. Hence, Carotid Doppler investigation plays an important role in prevention of stroke mainly in patients with risk factors like hypertension, smoking and hyperlipidemia although they are asymptomatic.

Keywords: Hyportpidents, Hyportension, Intima media thickness, Number of arteries showing significant stenosis, Smoking, Stroke

INTRODUCTION

WHO defines stroke as "the rapid development of clinical signs and symptoms of a focal neurological disturbance which lasts for more than 24 hours or leading to death with vascular origin as the cause" [1]. Stroke is the second most common cause of death worldwide. It is leading cause of disability in old age patients [1]. Isohemic stroke is more common and accounts for 50-85% of all the strokes worldwide [1]. Stroke is defined as isohemic if there is imaging (Computed Tomography or Magnetic Resonance Imaging within four weeks), surgical or autopsy evidence excluding haomorthage, or in absence of such direct evidence (e.g., deficit limited to one limb or completely resolving within 72 hours, atrial fibrillation in persons not on anticoagulants) suggest isohemic rather than a haemorthagic stroke [2].

Carolid artery disease is a major risk factor for Transient Ischemic Attack (TIA) and stroke. Carolid artery stenesis or atheromatous plaque formation is the major cause for stroke. For patients with stroke or TIA, sonological evaluation of carolids and Doppier helps to prevent further attacks in patients with stroke and also in preventing the occurrence of stroke in patients with TIA.

Ultrasound is an injurporisive, non invasive and highly accurate method for diagnosing carotid stenosis. It helps to assess the

plaque morphology [3,4]. Angiography has been largely replaced by carotid artery Doppler as the principal screening method for suspected extra cranial carotid artery atheroscierosis. Carotid ultrasound can be the only modality of choice before performing a carotid endarterectomy [5].

If the fisk factors are identified and detected early, appropriate management can be instituted in an asymptomatic patients with fisk factors which will slow down the progression of carotid artery disease. This study was done to establish the carotid artery involvement in the patients with stroke and TIA and to study the most common non-communicable risk factor associated with stroke and TIA in this population.

MATERIALS AND METHODS

In this study a prospective analysis of 100 patients, who presented with dirtical symptomatology of TIA and stroke and were reterred to the Department of Radio-Diagnosis at Sri Manaleula Vinayagar Medical College and Hospital, Puducheny, India, for CT-Brain from the period of Septiamber 2015 to September 2017. Patients with symptoms of stroke and TIA such as transient opisodes of neurological dystunction, sudden loss of consciousness, aftered sensorium, aphasia, diminution of vision or loss of vision were included in this study. Patients with evidence of haemormagic stroke, stroke due

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Vascular Loops at the Cerebellopontine Angle and their Correlation with Otological Symptoms

D PADMA REKA", AM ANAND", N KULASEKARANY, G BALACHANDRAN', P ELAMPARIDHY, R SIBHITHRANY

ABSTRACT

Introduction: The most common ofologic symptoms include hearing loss, finnitus and dizziness. Cerebellopontine angle is an anatomical structure at which the vascular and neural structures highly interact with each other. The neurovascular structures in this region includes cranial nerves V, VII, VIII, Anterior Inferior Cerebellar Artery (AICA), auditory artery, branches of petrosal vein, vein of middle cerebellar peduncle, vein of lateral recess of 4º ventricle and transverse portine vein.

Aim: To determine the course of the vascular loops in corebellopontine angle and to assess the relationship between the vascular loops in cerebellopontine angle with otological symptoms.

Materials and Methods: A retrospective study was conducted on 40 patients with otological symptoms using Magnetic Resonance Imaging (MRI) at our institution between June 2017 to June 2018. Grading of the AICA vascular loops according to Chavda classification was done. Chi-square test was done. The p-value < 0.05 was considered statistically significant.

Results: No association between Chavda grade of vascular loops of AICA at the cerebelioporitine angle and otological symptoms was found. The p-value was found to be >0.06 which is statistically insignificant (p-value for tinnitus-0.793, hearing loss-0.503, dizinness-0.300).

Conclusion: There is no association of the vascular loops with the otological symptoms. Hence, in view of the results obtained, the diagnosis of vascular compression syndromes should not be made only with the MRI imaging findings. Hence, vascular compression syndromes cannot be attributed as an aetiological factor for otological symptoms.

Keywords: Chevda dassification, Dizzinass, Hearing loss, Thrifus

INTRODUCTION

ARAGE.

The most common otologic symptoms include hearing loss, tinnifus and dizziness [1]. The prevalence of otological symptoms in south Indian population is 2% for tinnifus, 66% for sersorinoural hearing loss, 11% dizziness [2]. Thinifus is a sound in the ear, produced without an external stimulus. There are two types of tinnifus-pulsatile and non-pulsatile. Although otologic symptoms are associated with vertous diseases, the proper cause is not always identified [3]. Pulsatile tinnifus can be further subdivided into arterial and venous compression of the VIII* cranial nane which can be subdivided into high pitch and low pitch tinnifus [4].

The successful approach to the patient with tinnitus begins by differentiating objective from subjective tinnitus. Patients with objective tinnitus are hearing real sounds. Low-pillohed buzzing and didding probably denote palatal mycolonius/tensor tympani and stapedius muscle contractions. Subjective tinnitus, which we refer to as tinnitus, is the talse perception of sound in the absence of an acoustic stimulus [5].

Coroboliopontine angle is an anatomical structure at which the vascular and neural structures highly interact with each other. The neurovascular structures in this region includes cranial nerves V, VII, VIII, AICA, auditory artery, branches of petrosal vein, vein of middle cerebellar peduncle, vein of lateral recess of 4° ventricle and transverse pontine vein [6]. Medial portion of the cerebellopontine angle is the region between mid-brain (mesencephalon), pons, medulla, petrous bone, tentorium, and cerebellom. There are three fissures in this region: cerebellomesencephalic fissure superiorly, cerebellopontine fissure in the middle, and cerebellomedullary fissure inforiorly. The superior fissure contains Superior Cerebellar Artery (SCA) and cerebellomesencephalic vein. AICA and cerebellopontine

fissure vein are located in the middle fissure. The inferior fissure contains Posterior Inferior Cerebellar Artery (PICA) and cerebellomoduliary fissure vein. Cerebellar fiscoules hide the root entry zone of the vestibulocochiaer nerve [7]. Anatomical interactions between these vascular and neural structures may manifest as vascular compression syndrome.

Vasoular compression of the fifth cranial nerve resulting in trigominal neuralgia was first suggested by Dandy in 1934 and later by Gardner and Miklos in 1959. This concept was then widely applied to explain disorders of various cranial nerves. These are known as the compression syndromes, which include hemitacial spasm, glossopharyngeal neuralgia, geniculate neuralgia, and a vestibulocochikear nerve compression syndrome β). Trigominal neuralgia, hemitacial spasm, glossopharyngeal neuralgia, tinnitus, and vertigo are examples of the neurovascular compression

The purpose of the study was to assess the relationship between the vascular loop in careballoporitine angle and the otological symptoms.

MATERIALS AND METHODS

A retrospective study was conducted on 40 patients with otological symptoms by using MRI in the Department of Radiology at Srt Manakula. Vinayagar Medical College and Hospital (SMVMCH) Puducherry, India between June 2017 to June 2018. Patients with otological symptoms (timitus, sonsortneural hearing loss, disciness) who had undergone MRI brain were included for study. The exclusion criteria include patients with metallic implants or pacemaker, claustrephobic patients and patients who were already diagnosed with brain kedon or any vascular legions. The sample comprises of 25 male (62%) and 15 female (35%) with mean age of 46.5 years (range-21 to 80 years).

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Comparison of Carotid Artery Intima-media Thickness and Resistive Index by Ultrasound and Colour Doppler in Pre-hypertensives and Stage One Hypertensives

Radiology Section

SUBHA VENKATACHALAM", UMAMACESWARI AMIRTHALINCAMP, ELAMFARIOHI PADMANARAMP, KULASEKARAN NACHAMUN", BALACHANDIRAN COPALARATHNAMP, NACARALIAN KINATHANKARAMANF

ABSTRACT

Introduction: Pre-hypertension and stage one hypertension remains major public health problem in both developed and developing countries. It primarily affects elastic arteries, hence common carotid artery intima-Media Thickness (IMT) and Resistive Index (RI) considered an early predictor of cerebrovascular and cardiovascular complications.

Aim: This study was aimed to assess common carotid artery IMT and Resistive Index in pre-hypertensives and stage one hypertensive patients and to compare the findings between both groups.

Materials and Methods: The study design was hospital based cross sectional study and was conducted in Sri Manakula Vinayagar Medical College and Hospital, Pondicherry, Forty non diabetic patients in the age group of 25-65 years were examined for carotid artery Doppler. The patients were divided into prehypertensives and stage I hypertensives. Bilateral common carotid artery IMT and RI were evaluated.

Results: Among the 40 patients studied, 24 patients were prohypertensives and 16 were stage I hypertensives, 70% were females and 30% were makes. Palpitation was the commonest presenting symptom. Mean Systolic blood pressure was 128.25±4.00 in prohypertensives and 141.25±6.44 in stage I hypertensives. The mean IMT in both prohypertensives and stage I hypertensives was 0.05±0.01 on either side. Mean Resistive Index in prohypertensives was 0.73±0.00 on either side, while that in stage I hypertensives was 0.72±0.13 on right and 0.71±0.11 on left. However, no rise in IMT was observed with increasing age in both the groups. On comparison both the groups showed no significant difference in IMT and RI.

Conclusion: To conclude, both the prehypertensives and stage I hypertensives show similar pattern of IMT and RI of the common carotid artery.

INTRODUCTION

Development of atherosclerosis in vascular system occurs by various mechanisms, among which hypertension is an important and independent risk factor [1]. More than rinely-five percentages of hypertensive patients in the community are of essential, whereas only a small percentage has an identifiable cause which is known as secondary hypertension. The various systemic changes can be assessed by the atherosclerotic changes that take place in the carotic artery [2]. It increases the risk of stroke, coronary artery disease and peripheral arterial disease by two-three tokis with risk being proportional to the severity of hypertension [3].

increase in IMT of an artery has been used as a surrogate marker of subclinical atherosolerosis and early detection of vascular events [3]. B-mode ultrasound of carotid arteries is a non-invasive, sate, inexpensive, sensitive, valid and reproducible method of directly assessing IMT [4]. The intima-media complex is made up of various elements like the endothalial cells, connective tissue and smooth muscle. This complex is measuring sonographically as the IMT [5].

The velocity of blood flowing via the carolid artery can be determined by colour Doppler [6]. There are multiple ways to increase the accuracy of the results, lew of which are Doppler angle, sample volume box and colour gain [7].

According to Pourcelot RI is a haemodynamic parameter, which is determined by Doppler Sonography basically reflecting the vascular resistance which in turn depends on distensibility of the vessel [8].

Keywords: Palpitation, Pouscolot Index, Vascular resistance

The present study almod to evaluate the common carotid arrary IMT and RI by Ultrasound and Colour Doppler in prehypertensives and stage one hypertensive patients and to compare the findings between prehypertensives and stage one hypertensives.

MATERIALS AND METHODS

The study design was hospital based cross sectional study and was conducted in department of Radio-Diagnosts at Sri Manakula Vinayagar Medical College and Hospital, Puducherry. The study was approved by the institute ethics committee. The duration of study was stx months. Stage I hyperfersive and prohyperlansive subjects in the age group of 25 to 60 years were included. Those with history of Diabetes mailtus and hyperferiderile were excluded from the study.

The subjects were divided as follows: Prohypertensives: Systolic Blood pressure: 120-139 mmHg or Diastolic Blood pressure: 80-89 mmHg; Stage I hypertensives: Systolic Blood pressure: 140-159 mmHg or Diastolic Blood pressure: 90-99 mmHg [9].

After obtaining informed consent, ultrasonography and doppler was performed using GE-voluson-96 scanner with 7.5-10 MHz linear array transducer.

IMT defined as the distance between leading edge of the lumenintima echo and leading edge of the media-adventitia echo is measured 1.5 cm proximal to its bifurcation. They pulsed-Doppler carried out in Common Carotid Artery (CCA), 1.5 cm proximal to its bifurcation with maximum Doppler angle of 60°. The maximum systolic and minimum diastolic flow rates were determined and RI was calculated automatically in a cycle by means of in-built software.

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A Comprehensive Review of the Anatomy of Popliteus and Its Clinico-Surgical Relevance

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Abstract

An extensive anatomical knowledge of the muscle popliteus and its tendon is indispensable to understand the posterolateral structures of the knee which is prone to injury compared to the medial knee structures. This study describes all the relevant anatomical details of the muscle and its clinical significance. Anatomical and clinical terms regarding the popliteus muscle are searched using databases and search engines for the collection of literature review. Abstracts and articles describing the posterolateral corner (PLC) structures apart from the muscle studied were excluded. Seventy-six articles were adopted using the inclusion and exclusion criteria, among which 62 articles had fulfilled the need. Original articles dealing with morphology and morphometric analysis of popliteus muscle are scarce. Hence, the finer details of the anatomy of the muscle in various populations are unavailable, which is considered as a deficiency of the study. This article deals with the morphology of the popliteus and its clinical and surgical implications pertaining to the PLC of the knee.

Keywords: Popliteofibular ligament, popliteomeniscal fascicles, popliteus muscle tendon unit, popliteus tear, posterolateral corner

INTRODUCTION

The intricate anatomy of the posterolateral corner (PLC) of the knee is intriguing. To understand this complexity, the comprehensive structure of the popliteus (PS) nurscle and its tendon is a prerequisite [Figure 1]. The PS muscle is a deep nouscle of the posterior compartment of the leg on the lower part of the floor of the popliteal fossa. It takes its muscular origin from the medial border of tibia, soleal line, supra-soleal space, part of the bone forming a boundary above the supra-soleal space, and few muscle fibers from the fibula between soleus and tibialis posterior and above the peroneo-tibial band, and all these muscle fibers form the ovoid tendon which grooves the lateral meniscus (LM) [Figure 1]. Then, it runs upward rubbing against the candal part of the articular surface of the lateral femoral condyle and finally gets inserted into the sulcus in front and just below the fibular collateral ligament (FCL) [Figure 1].[1] The musculo-tendinous junction (MTJ) complex makes up part of the PLC of the knee. Because its main function is to stabilize the lateral rotation between the femmer and tibia, in case of its injury or involvement of PLC structures, a thorough knowledge of the PS is necessary to treat such ailments. [2] Hence, this article deals with the anatomy and its clinico-surgical implications.



MATERIALS AND METHODS

This article followed PRISMA guidelines, wherein the databases and search engines used for the collection of literature review regarding the popliteus muscle are PubMed, Mendeley, Google Scholar, Google, Cochrane, ProQuest, and Sci-Hub.

Search terms used were popliteus, unlocking muscle, lateral condyle of femur, fibular collateral ligament, popliteo-meniscal fascicles, popliteofibular ligament, popliteus muscle-tendon unit, posterolateral corner, and popliteus tear. Search phrases such as anatomy of the popliteus, morphometric analysis of the popliteus, injuries to the posterolateral corner of knee, and clinical aspects of popliteus were used. Full articles in English regarding the human anatomy, embryology, and morphometric analysis of popliteus as well as comparative anatomy and

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A rare occurrence of unilateral duplication of Wharton's duct with their intra-sublingual glandular course: a cadaveric report

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Abstract

Anatomical variations regarding the salivary glands and their ducts have been observed in previous studies. But the occurrence of accessory submandibular gland duct is less common. In this study, we report a male cadaver with duplicated submandibular duct on the right side. The right upper submandibular duct (main duct) emerged from the anterior aspect of the deep part of the gland, ran its course forward, then pierced the posterior aspect of the sublingual gland and within the gland it ran forward and opened on the posterior aspect of sublingual papilla on the floor of mouth. The lower submandibular duct (accessory duct) also commenced from the anterior aspect of the deep part of the submandibular gland, ran forward just below and superficial to the upper duct and entered the anterior aspect of the sublingual gland and finally opened on the anterior aspect of sublingual papilla separately. Here, the embryological basis for the development of duplicated ducts and its clinical relevance is discussed.

Key words: accessory submandibular duct, duplicated salivary duct, sialography, sialolith, Wharton's duct

Introduction

Submandibular gland (SMG) is one of the major salivary glands located in the submandibular region of the neck. It is the first salivary gland to develop at 11.5 day of embryonic life followed by parotid and sublingual gland (SLG). The epithelium of oral cavity invaginates into the surrounding mesenchyme and shows numerous branching pattern. The terminal part of the cord remains as acini and the proximal part forms the duct [1]. The SMG duct (Wharton's duct) normally emerges from the medial surface of the superficial part after receiving many tributaries at the level of posterior border of mylohyoid muscle. It then runs within the deep part of the gland and passes upward and slightly backward for 5mm. This bend called genu which lies over the posterior border of mylohyoid muscle [2] with an angle of 102.7 degree [3]. The duct then passes forward between lingual and hypoglossal nerves on the hyoglossus muscle deep to the mylohyoid muscle. At the anterior border of hyoglossus, the duct is crossed from lateral to medial by lingual nerve and runs forward medial to the SLG and finally terminates on the sublingual papilla on the floor of mouth. Complete narrowing of the duct is defined as a kink which is observed at the hilar region, at or near the genu. Kinking may be produced by protrusion of adjacent tissue beneath the duct or because of the loosening of mylohyoid muscle [3]. The normo morpho-anatomical factors regarding SMG main duct are narrow lumen, longer and uphill course, genn and kink which act as aetiological factors for the salivary obstructive diseases like sialolithiasis, sialadenitis. Additionally if there is an accessory duct which is usually narrower and longer than the main duct, then this factor augments the possibility of developing above said

Anatomical variations can involve the number and size of the glands or their ducts. In this study we report a case with duplicated SMG duct on the right side of a male cadaver.

In a routine dissection of neck for undergraduate students of Sri Manakula Vinayagar Medical College and Hospital in the Department of Anatomy, it was noted in a male cadaver of 50 years of age, that the SMG duct on the right side was duplicated while the on the left side it was normal. The right upper SMG duct (main duct) (Fig.1,2) emerged from the anterior aspect of deep part of the gland, ran its course forward and it was crossed by lingual nerve from lateral to medial side by winding around its inferior aspect near the SLG where duct was closer to the gland than the lingual nerve. It then pierced the posterior aspect of the gland and within the gland it ran forward and opened on the posterior aspect of sublingual papilla on the floor of mouth. On its entire course it was lying

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Unilateral and isolated absence of opponens pollicis and adductor pollicis: Could it be Cavanagh's syndrome?

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Abstract Functions of the human hand such as grasping and releasing require synchronous action of thenar muscles and thereby require considerable mechanical complexity. Isolated absence of thenar muscles is often reported in association with syndromes such as Cavanagh's syndrome or Holt-Oram syndrome (in addition to cardiac defects). During routine anatomical dissection of an approximately 55-year-old male formalin-embalmed cadever, we observed a unique variation in the left paim where opponens pollicis and adductor pollicis muscle were completely devoid of muscle fibers and solely constituted by fibrous tissue. We could not make out any other nervous/vascular/musculoskeletal abnormalities or signs of surgical procedures on the left superior extremity. We followed a step-wise approach rule out possible clinical syndromes and etiologies. The presumable hypothesis would be focal deficiency in the proliferation of premyogenic cells in the limb bud. This rare variation would be of paramount importance to plastic surgeons who can offer surgical correction (tendon transfers) if presented at earlier ages.

Keywords: Adductor poliicis, Cavanagh's syndrome, opponens poliicis, thenar muscles

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INTRODUCTION

The intrinsic muscles of the hand acting collectively on the thumb are grouped as thenar eminence. Functions of the human hand such as grasping and releasing require synchronous action of thenar muscles and thereby require considerable mechanical complexity. Muscles of the thumb establish a "guy-rope" action in the metacarpal positioning, such that any activity is accompanied by rotation.[9] Isolated absence of thenar muscles is often reported in association with syndromes such as Cavanagh's syndrome^[3] or Holt-Oram syndrome (in addition to cardiac defects). H Even though few clinical cases with congenital absence of thenar nancles 100 have been reported, many cases would have gone undiagnosed or been misdiagnosed. We present a rare case observed during cadaveric dissection, where opponent policis and adductor policis were absent only on the left hand. Owing to the ranty of presentation and importance in hand surgeries, this case report gains relevance.

CASE REPORT

During routine anatomical dissection of an approximately 55-year-old male formalin-embalmed cadaver, we observed

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DO THE DEAD ENLIGHTEN THE LIVING IN UNDERSTANDING ANATOMY

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ABSTRACT

Background: Cadaveric dissection is a traditional method to acquire the anatomical knowledge. Even though the advancement of multimedia and prosected specimens are changing the attitude of the students towards the replacement of dissection.

Purpose of the study: The aim of the study was to assess the attitude of students toward dissection, identifying the factors preventing them from learning and to obtain the suggestions for the improvement of learning in the dissection hall.

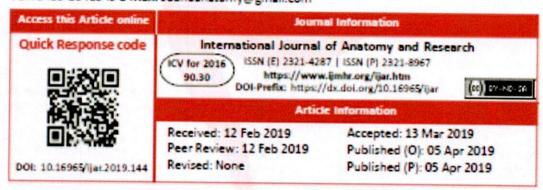
Materials and methods: It was a questionnaire based study which involved 140 students of first year undergraduates conducted at Sri Manakula Vinayagar Medical College and Hospital, Pondicherry.

Results: The pre and posttest questionnaires were completed by 140 students. The difference between pre and post test responses regarding the factors distracting the students from learning anatomy in the dissection half was not statistically significant. Majority of the students opined that hands-on dissection is an important tool to learn gross anatomy even though the results were statistically insignificant.

Conclusion: However different methods of learning anatomy have evolved, the most effective way to understand gross anatomy is cadaveric teaching.

KEY WORDS: Gross anatomy, Cadaver, Dissection, Students' attitude.

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INTRODUCTION

Attainment of knowledge in anatomy is significant which enhances the medical students' skill to comprehend the clinical scenario of the patient and treating the sick effectively [1]. It lays the basic foundation in medical curriculum. Cadaveric dissection is a traditional method adopted by many medical colleges globally. To acquire this knowledge, the students are exposed to cadaver. A chain of questions arise in students' mind when they encounter human cadaver like the source of cadaver, cause and However, it is an area where the young minds

time of death, embalming procedure, period of usage of cadaver etc. As many of them experience this for the first time, it is doubtless that most of them undergo an emotional stress [2] even though it is a matter of debate for the continuation of cadaveric dissection. The distressing factors a student undergo can be fear and smell of cadaver, shock at the sight of death, thoughts about death, intruding with privacy, sacrilege, mutilation and cultural taboo violation [3].

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Original Research Article

A study on association of preoperative anaemia and obesity with causes and postoperative outcome in women undergoing hysterectomy for abnormal uterine bleeding

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ABSTRACT

Background: Abnormal uterine bleeding is most commonly encountered in 10-20% of women in reproductive age. The objectives of the study are to assess the proportion and association with causes and postoperative outcome of preoperative anaemia and obesity in women with abnormal uterine bleeding who underwent hysterectomy.

Methods: This was a retrospective observational record-based study conducted in the Dept. of Obstetrics and Gynaecology of Sri Manakula Vinayagar Medical College and Hospital(SMVMCH), Pondicherry. The study population consisted of 169 patients who were admitted for abnormal uterine bleeding and underwent hysterectomy from January 2016 to December 2016 for a period of one year.

Results: The mean age was 43 years. The mean value of haemoglobin on admission was 9.89 g/dl. The distribution frequencies of patients by WHO BMI classification as underweight, normal, overweight and obesity are 8, 59, 78 and 24 respectively. The distribution frequencies of patients by WHO anaemia classification as no anaemia, mild, moderate are 34, 37 and 98 respectively. Seventy-six patients had blood transfusion. Six patients had urinary tract infection and all of them were anaemic and obese. Two patients had developed respiratory tract infection and none of the patients had developed deep vein thrombosis.

Conclusions: Preoperative anaemia was more common in patients with fibroid and associated with increased morbidity in immediate postoperative period. There is more prevalence of SSI among overweight and obese women.

Keywords: Abnormal uterine bleeding, Hysterectomy, Overweight, Obesity, Preoperative anaemia

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Original Article

Evaluation of skill-based training program on rational drug treatment for medical interns

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ARSTRACT

Context: A module-based training program for medical interns using World Health Organization guide for good prescription along with the individual feedback on their prescription was developed and implemented. Objective: The objective of the study was to obtain the medical interns' reactions to newly developed skill-based training program on rational treatment. Study Setting: This study was conducted at the Department of Community Medicine. Participants: A total of 96 medical interns were included in the study. Study Design: A cross-sectional study consisting of retro-prefeedback and open-ended questions about self-assessment of perceived skill on rational treatment. Analysis: Collected data were entered in Bpi Info (5.5.4) and analysed. Results: After training, there was a significant increase in self-perceived positivit scores of setting up the therapeutic objective for the treatment (2.9-4.9), ability to select the correct drug (2.8-5.1), ability to select right dose, schedule, and duration of drugs (2.5-4.9), and overall prescription skill (2.9-4.9). There is a significant decrease in self-perceived scores in the skill of practicing polypharmacy (4.1-2.5). Conclusions: Overall, the training program was taken well and interns perceived their skill on rational treatment was improved as shown by the feedback.

Keywords: Interns, medication errors, polypharmacy, prescriptions, training

Introduction

The irrational use of medicines is a problem worldwide, and the World Health Organization (WHO) estimates that more than half of the medicines prescribed, dispensed, or sold inappropriately. Irrational prescription of drugs is responsible for the delay in relief, more adverse effects, prolonged hospitalization, increased morbidity and mortality, the emergence of microbial resistance, financial loss to patient and community, and perpenuation of public health problem. WHO and Medical Council of India emphasize on problem-based pharmacotherapy training in undergraduate curriculum and continuing in-service medical education on rational drug prescription of medicines. [8]

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In the undergraduate medical curriculum, traditionally pharmacology is usually taught in 2rd year, which is having a more drug-centered approach and when they come as medical interns, which is more disease centered making difficult for the students for learning. The medical internship is the period, in which consolidation of undergraduate medical education through continued learning and skill acquisition under direct supervision and guidance from teachers. Studies in India also have indicated that the irrational prescribing practices are common in medical interns. [54] Medical interns prescribe by observing their clinical teachers, seniors, and colleagues which may lead to faulty practices without proper feedback on prescription. Rational prescription writing is a skill and it should be learned at the earliest since studies have shown that despite gains in clinical experience, prescribing skills will not improve after graduation. In They should develop a good attitude of prescription writing and netonal drug as they constitute the future generation of doctors [7] Literature shows that the available studies focus on improving the rational

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Evaluation of Community-based Palliative Care Services: Perspectives from Various Stakeholders

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Abstract

Background: As a part of Memorandum of Understanding with Tamil Nadu Institute of Palliative Medicine, community-based palliative care services have been initiated 2 years back in our urban field practice areas. Aim: The aim of this study was to evaluate the home care service, a major component of our community-based palliative care, with a view to identify the unmet needs of the services rendered for decision-making about the program. Materials and Methods: It was a descriptive qualitative design carried out by the authors trained in qualitative research methods. In-depth interviews were done among four patients, seven caregivers, to social workers, six nursing staffs, and six medical interns for a minimum of 20 min. Interviews were audiorecorded, transcribed verbatim, and content analysis was done manually. Ethical principles were adhered throughout the study. Results: Descriptive coding of the text information was done, later, similar codes were merged together to form the categories. Five categories under the theme of strengths and five codes under the theme of challenges of the home care services emerged out. Categories under strengths were physical management, psychological care, social support, efficient teamwork, and acceptance by the community. Codes for felt challenges were interdisciplinary collaboration, volunteer involvement, training enhancement, widening the services, and enhancing the community support. Conclusions: This review revealed the concerns of various stakeholders. There is a need for more interprofessional collaborations, where team members understand each other's roles for effective teamwork, as evident from the framework analysis.

Keywords: Community-based pulliative care, framework analysis, home care, qualitative evaluation

INTRODUCTION

Community-based palliative care (CBPC) services are those offered at a community health center or that are run with community participation. It is a nonhospital, nonhospice palliative care provided in patient homes, in clinic or over the phone. It is generally patient-centered, comprehensive, and cost-effective. CBPC involves service delivery by both multidisciplinary teams of health-care professionals and community health workers/volunteers. If Home care service is the crux of the CBPC service. The ultimate goal of home-based care is to "promote, restore, and maintain a person's maximum level of comfort, function, and health, including care toward a dignified death. If

As a part of Memorandum of Understanding signed with Tamil Nadu Institute of Palliative Medicine, in the year 2015, CBPC services were established at four villages situated in the study setting, mentioned below. It was a new program initiated with limited preexisting resources, basic training.

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and planning. Hence, it was decided to carry out an internal evaluation, to illuminate on the unmet needs for further decision-making. The evaluation is primarily based on the detailed and comprehensive understanding of the perceptions of various stakeholders about the services and incorporates in improvement of quality and services. Such exercise is crucial to align the program to expectations of people in the given context and also improve the sense of belonging among the field staff by considering their suggestions, which is the key to long-term sustainability of the program.

Neighbourhood Network in Palliative Care (NNPC)^[5] model in Kerala served as a platform to transform the doctor-driven palliative care to community-owned, volunteer-driven

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Paederus dermatitis

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Abstract

Poodinus dermatits is an inflant dermatits caused by pederin, a toxin produced by the rove beetle (Plaudinus). The disease occurs worldwide, but it is often not recognized as a history of contact with the insect is frequently absent, it is commonly seen in the reiny season. Crushing the insect releases pederin, resulting in the characteristic linear lesions with a burning sensation that heel with hyperpigmentation. Treatment comprises immediate washing of the area to eliminate the toxin and topical application of a topical steroid-entiblotic combination. Preventive measures may include reducing the insect population in the surroundings, avoiding contact of insects with the skin, minimizing the lesions after contact. Awareness of the etiology and clinical manifestations makes it easier to suspect this condition even in the absence of a history of exposure to the insect. We present a comprehensive review of the etiopathogenesis, pathology, clinical features, treatment and prevention of Pawdorus dermatits and also review the biology of the insect and its behavior.

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Key words: Beetles, contact dermatits, Inflant dermatits, Paedenus dermatits

Introduction

Insects represent more than half of all known living organisms in the world and have an enormous influence on human life. They may harm man by stinging, biting or transmitting diseases. Some insects, such as Paederus, contain toxins that directly irritate the skin. This beetle has been given various names in different countries [Table 1].17

The epidemiology, biology, pathology, clinical features, treatment and prevention of Facakrus dermatitis are discussed in this review.

History

Paederic dermatitis was first reported in the literature in 1901 by Vorderman, who reported an outbreak of dermatitis in personnel at the Anjet-Kidoel lighthouse in Jawa caused by insects that were known locally as semoet-kalong. The species described by Vorderman was Paederic perceptions, believed to be a variety of Paederic fuscipes. A second outbreak was described by Pirajá da Silva in 1912 in Brazil, caused by Paederic columbius.

The toxicity of Paederus and the skin reaction to the beetles named "Ching Yao Chung" was known in Chinese medicine as

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far back as 1200 years ago and it has been suggested in Chinese literature that the toxin removes tattoos.* Fossil rove beetles dating back to almost 200 million years have been discovered. Norton and Lyons suggest that the third and fourth plagues of the ten plagues of Egypt described in the bible could have been caused by Paccherus afferi which flourishes in the Nile basin under favorable conditions."

Various names given for this condition include "dermatite vesiculeuse saisonnière" (1915), "dermatitis linearis" (1917), "rove beetle dermatitis" (1963), "Staphylinidae dermatitis" (1968), "whiplash dermatitis" (1954) and spider lick 2007 Frank recommends the use of the term dermatitis linearis as the other terms are misleading.¹³

Epidemiology

Paederus dermatitis is found in all acogeographic regions across the world except in Antarctica but is more common in tropical and subtropical regions. ^{13,14} Outbreaks have been reported mainly from the southern regions of Europe and Asia, and in other continents at lower latitudes. ¹⁷ Sporadic cases are seen in any season when the insect is active, but large outbreaks occur particularly during the rainy months.³ An increase in the population of Paederus insects

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SHORT COMMUNICATION



Role of Immunohistochemistry in Acute Leukemias with Myelonecrosis

Subramanian Kalaivani¹ · Gurusamy Dharma Saranya¹ · Rakhee Kar¹ · Debdatta Basu¹

Received: 26 October: 2017 / Accepted: 2 January 2018 / Published online: 12 January 2018 O. Indian Society of Humatology and Bibo d Transfusion: 2018

Abstract Myelonecrosisis a nare astemortem finding most commonly seen in harmatopoeitic neoplasms, especially in acute leukemia. When myelonecrosis occurs at the time of presentation, it imposes centain diagnostic issues in subcategorization of leukemias which is necessary for thempentic as well as prognostic purposes. Flow cytometry, though is a powerful modality, has its own limitations especially when the cells are not fresh and viable; and when the specimen is not of adequate cellularity which is usual in cases of myelonecrosis. In such attations, immunocytochemistry (ICC) or immunohistochemistry (IHC) may play a major role in lineage specification in leule mas as the necrosed marrow with the ghost cells can still retain the antigenicity for certain immunomarkers. Four such interesting cases of common B acute lymphobiastic leakemia (ALL) where IHC was used for diagnosis were included. ICC and IHC done on the necrosed marrow contributed to the diagnosis of ALL in all the four cases and contributed to subsequent management. ICC and IHC if contributory can play a major role in

Presentation at a meeting: Induded at a part of a study in APCON-2015.

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Department of Pathology, Javahariai Institute of Postgraduate Medical Education and Research (JIPMER), Pudacherry 695006, India identifying the primary cause of myelonecrosis as the ghost cells can retain the antigenicity despite being morphologically mon-viable.

Keywords Acute lymphoblastic leukemia lmmunocytochemistry - lmmunohistochemistry -Myelomerosis - Necrobiosis

Introduction

Myelomerosisis defined as "merosis of the myeloid tissue and medallary stroma in large areas of hematopoetic hone manow", which is more common in malignancy, expecially hemopoietic neoplasia [1-3]. In usual cases, acute leule mas are often classified without difficulty because of accessibility of the neoplastic cells within the peripheral blood and/or bone marrow allowing flow cytometric analusis, immunohistochemistry (IHC) and genetic studies to he carried out with case. However, in a case of nyelonecrosis bose marrow aspiration is generally unsue cessful, and multiple aspirations may be necessary and the nonviable "ghost cells" have a high propensity to thear in the flow chamber [4]. In such situations IHC is particularly useful for amlyzing malignant cells that are too fragile to remain i mact during specimen processing or the hydrodynamic focusing steps of flow cytometry (FC) [4]. We present here four such interesting cases of common Bacute lymphoblastic lenkemia (ALL) where IHC done on the necrosed marrow contributed to the diagnosis and further management.

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A Community-Based Study on Diabetes Medication Nonadherence and its Risk Factors in Rural Tamil Nadu

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Abstract

Context: Medication nonadherence is common among diabetics and it is one of the leading public health challenges. Aims: The aims of this study were to find the prevalence of nonadherence to diabetic medication and to identify various factors associated with it. Seetings and Design: This study was conducted in 34 villages of the field practicing areas of rural health training center. This was a mixed method study design. Subjects and Methods: It was conducted among 328 type 2 diabetic patients. The quantitative data were collected from diabetic patients and qualitative data from health-care providers to identify their perceived barriers for patient's nonadherence. StatisticalAnalysis Used: Collected data were entered in Epi Info (3.5.3) and analyzed using SPSS version 24 software. Results: The prevalence of low adherence to diabetic metication was 45.4% among the study population. Bivariate analysis shows significant association with the patients who are literate (odds ratio [OR] = 0.6, confidence interval [CI] = 0.38–0.95), hypertensive (OR = 1.6, CI = 1.04–2.5), taking treatment from private facility (OR = 0.54, CI = 0.34–0.87), perceived lack of satisfaction with doctor-patient relationship (OR = 3.3, CI = 1.3–8.3), and perceived lack of knowledge about diabetes (OR = 2.03, CI = 1.29–3.1) with low adherence to medication. Conclusions: The prevalence of nonadherence to medications is common among diabetics in rural areas, and there is a need to strengthen the primary health-care system in addressing barriers to achieve better health outcomes.

Keywords: Adherence, drug therapy, India, rural, type 2 diabetes mellitus

INTRODUCTION

Diabetes is considered to be one of the most psychologically and behaviorally demanding of the chronic diseases and it requires frequent self-monitoring of blood glucose, dietary modification, diet, and administration of medication under schedule. (i) Medication nonadherence is common among diabetics and it is one of the leading public health challenges. (ii) In a resource-poor country like India with low literacy levels and restricted access to health-care facilities, the prevalence of medication nonadherence is much more common. (ii)

Medication adherence has been defined by the International Society for Pharmacoeconomics and Outcomes Research as the "extent to which a patient acts in accordance with the prescribed interval and dose of a dosing regimen." Poor treatment adherence that contributes to the suboptimal glycemic control continues to be one of the major barriers to effective diabetes management. Suboptimal treatment can lead to increased use of health-care services (acute care and hospitalizations).

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reduction in patient's quality of life, and increased health-care costs (drug costs and medical costs). In 2003, the World Health Organization (WHO) emphasized that "increasing the effectiveness of adherence interventions may have a far greater impact on the health of the population than any improvement in specific medical treatments." In Most of the available literature in India on medication nonadherence for diabetics are from hospital-based studies and it shows that it is common and various factors involved in the medication nonadherence are of behavioral and sociocultural factors. In There is a need for gathering of relevant information on various factors associated with medication nonadherence, which will help in identifying ways to overcome the barriers. Hence, the present

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Postmenopausal Bleeding among Rural Women in Tamil Nadu, India: Mixed Methods Study

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Abstract

Introduction: Postmenopausal bleeding (PMB) is a common and early symptom of cervical and endometrial cancer. Its early detection can improve the cure rate and reduces mortality. Objectives: The objective of the study is to find out the prevalence and determinants of PMB in a rural community setting and the reasons for not undergoing cervical cancer screening among postmenopausal women Materials and Methods: A sequential exploratory mixed methods study where qualitative (group interviews) phase followed quantitative (survey) phase in the community. The survey was undertaken among the representative sample of 1,530 postmenopausal women in 34 villages of Villapuram district, Tamil Nada. Data were collected by house-to-house survey. Analysis: Bivariate and multivariate analysis was done using SPSS 24 software package. Results: The prevalence of PMB was found to be 1.8%. Only 5.6% women had undergone screening. The majority did not go for screening due to lack of awareness, or they did not have any symptoms or feared about negative results. Occupation (daily wage laborers), use of oral contraceptive pills at least for 1 year, recurrent abortions (> three abortions), reproductive tract infection (more than 10 episodes in lifetime), abdominal obesity (increased waist-hip ratio), and underweight were identified as significant risk factors for PMB. Conclusion and Recommendations: Nearly 2% of women have PMB, and most of the factors identified as determinants are preventable. Cervical cancer screening rate was poor among the respondents and lack of awareness was stated as the major reason for it. Hence, the promotion of healthy lifestyles and contraceptives in early reproductive life and awareness for the need of early screening is recommended.

Keywords: Community, determinants, India, postmenopausal bleeding, rural

INTRODUCTION

Postmenopausal bleeding (PMB) is defined as "any bleeding that occurs from the genital tract after one year of amenorrhea in a woman who is not receiving Hormone Replacement Therapy (HRT) (pp: 116). (1) Women with PMB has a 10% risk of having genital malignancies such as cervical cancer, endometrial cancer, vaginal, ovarian, and vulval cancers along with a 10% risk of significant pathology. [28] Although PMB is often associated with benign pathologies, the possibility of having an underlying malignancy makes it a sinister complaint requiring thorough clinical work up. Evidence has shown that early detection of cervical and endometrial cancer improves the cure rate and reduces mortality (4.7) However, unfortunately, like the cervical cancer, there are no effective screening tests available for early detection of endometrial cancer (*) The first evident symptom in almost all cases of endometrial cancer is PMB, which provokes women to seek medical help and getting detected at early stages of endometrial cancer. (8) Hence, the identification of PMB in community setting provides an opportunity to detect these women at early stages of these

Cervical cancer is the fourth most common cancer in the world. and India alone accounts for 25% of its burden worldwide. Nearly 70% of the women with cervical cancer presents to the hospital at advanced stages where the 5-year survival rate is only 50%. M In spite of the availability of effective screening tests and efforts by the governments for opportunistic cervical cancer screening through the National Programme for the prevention and control of cancer, diabetes, cardiovascular diseases and stroke, and state level programs, studies done

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Identifying People in Need of Palliative Care Services in Rural Tamil Nadu: A Survey

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Background: As a part of initiating community-based palliative care program in the field practice areas of Urban Health Training Centre (UHTC) Villaparam, it was necessary for us to identify people who need palliative care to plan our services. Aim: This study aims to assess the need for pulliative care and its determinants in the villages under the UHTC, Villapuram, and to know their sociodemographic characteristics and morbidity profile. Materials and Methods: A community-based cross-sectional survey was conducted in the four villages under UHTC between April and September 2016. A house-to-house survey was conducted by a trained team using a structured questionnaire. The available member of the households was interviewed about the need for palliative care and the morbidity profile among all the members of their household. Written informed consent was obtained before the interview. Data were entered and analyzed using Epilnfo (version 7.2.2.6) software. Prevalence ratio, age- and gender-wise prevalence of people in need of palliative care was calculated. Results: The overall prevalence of people in need of palliative care was found to be 4.5/1000 population (95% confidence interval: 3.2-6.3). Among them, 73.5% were elderly people. The most common condition requiring pulliative care was old age-related weakness (41 2%). Conclusion: The need for pulliative care services among elderly people was found to be high. This data can be used for planning and implementing community-based palliative care services for the people in our field practice areas.

Keywords: Criteria, health services need, home care services, palliative care, selection

INTRODUCTION

Palliative care is defined as "an approach that improves the quality of life of patients and their families facing the problems associated with life-threatening illnesses, through the prevention and relief of suffering by means of early identification, impeccable assessment, and treatment of pain and other problems, physical, psychosocial, and spiritual "[1] In India, there is a growing need for palliative care among people due to reasons such as increasing number of old people 11 and increased burden of Non Communicable Diseases. MAccording to the Global Atlas of Palliative care, 22% adults and 24% children need palliative care at the end of life in the South East Asian region 14 It is estimated that <2% of patients in need of palliative care in the country receive it and 90% of all palliative care services in the country are available in the state of Kerala 18 In Tamil Nadu and Puducherry, there are limited palliative care services available in the public sector for the people suffering from chronic incurable illness. An expert team from Institute of Palliative Medicine (IPM), Kerala was

involved in a movement of establishing palliative care services in the state of Puducherry and Tamil Nadu. In response to the movement, we joined the team to establish palliative care service in our field practice areas in rural Tamil Nadu.

The Department of Community Medicine at Sri Manakula Vinayagar Medical College and Hospital, Pudncherry, has been running Pain and Palliative care Clinic in collaboration with the Department of Anaesthesia for the last two years by four faculty trained at IPM. We planned to expand our services to the community by initiating community-based palliative care program in the four villages under Urban Health Training Centre (UHTC), Villupuram to reach the needy people. However, the information regarding the proportion of people

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Acral porokeratosis associated with anonychia

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Among dermatological disorders, porokeratosis remains an enigma owing to its uncertain pathogenesis, varied clinical presentations, and unpredictable outcome. Porokeratosis is characterized by marginate scaling lesions, histologically showing a column of parakeratotic keratinocytes (the cornoid lamella). Various morphological patterns include classical porokeratosis of Mibelli, disseminated superficial actinic porokeratosis, disseminated superficial porokeratosis of immunosuppression, chikhhood forms, linear porokeratosis, porokeratosis palmaris et plantaris disseminata, and punctate porokeratosis.

While a few cases involving distal extremities with nail changes have been described in the literature, complete loss of nail (anonychia), with exclusive involvement of the acral area, is very rare.

A 35-year-old female patient, an agricultural laborer, presented with a history of raised asymptomatic lesions, over the right hand and bilateral feet, of one-year duration. She had noticed a ring-like lesion over her feet, involving the toes, with associated nail discoloration and subsequent dystrophy. Subsequently, she noticed similar lesions involving the right hand. The skin lesions preceded the involvement of nails. There was no family history of similar illness.

On cutaneous examination, a well-defined, hyperpigmented plaque with a prominent peripheral keratotic ridge and central atrophy and depigmentation was seen over the right hand involving the thumb, and the medial border of the second finger and first interdigital space [Figure 1]. Anonychia of the right thumb nail was seen. Bilaterally, the dorsa of the feet showed similar plaques of size 5 × 5 cm over the first and second toes. There was anonychia over both the great toe nails [Figure 2]. The right second toe nail showed dystrophy. There was no involvement of the oral or genital mucosa. The patient had no features of immunosuppression.

Figure 1: A well-defined, hyperpigmented plaque with a prominent keratotic ridge at the periphery and central strophy and depigmentation seen over the right hand.

Skin biopsy, taken from the edge of the lesion, showed acanthosis, byperkeratosis, papillematosis, and a keratin-filled invagination with a central parakeratotic column, suggestive of cornoid lamellae. The epidermis underlying the cornoid lamella showed absence of granular layer [Figure 3]. The dermis showed minimal perivascular lymphocytic infiltration. All the other laboratory investigations a were found to be within normal limits. Patient chose treatment with a electrocautery, however, the response was poor.

Porokeratosis presents itself in a fascinating array of morphological variants. The morphology of porokeratosis depends upon the site and the triggers. Based on the site, facial prorokeratosis, genital porokeratosis, and porokeratosis ptychotropica have been described in the literature. 12 However, porokeratosis of the acral areas, particularly the thumbs, with nail involvement is very rare. Two case reports describing nail involvement are compared with this case in Table 1. This case presented with anonychia of the affected digits and it could be due to the disease process involving the nail matrix and nail bod.

Apart from the genetic causes, certain environmental triggers such as irradiation/ultraviolet light, mechanical trauma, infective agents have been proposed as etiological factors. Immunosuppression has also been implicated Certain drugs, such as thiazide diuretics, and immunosuppressive drugs such as predisiolone, azathioprine, used in organ transplantation, have also been reported as etiological factors in elderly patients. This case is being presented for the unusual involvement of acral areas, along with anonychia, giving rise to the intriguing possibility of a new clinical variant of porokeratosis i.e., acral posokeratosis with anonychia.

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Conflicts of interest

There are no conflicts of interest.



Figure 2: Bilateral dorse of feet shows well defined plaques of size 5 cm × 5 cm with perphenel raised margins over the first and second toes. There was anonychia over both the great toe natio.

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Hypotrichosis in a Child with Olmsted Syndrome

Sir

Olmsted syndrome is a rare and unique keratinizing disorder which presents with bilateral mutilating transgradient palmoplantar keratoderma and periorificial keratotic plaques. Other reported features include leukokeratosis of the tongue, icthyotic lesions, pain, itching, absent premolar teeth, hearing loss for high frequencies, sclerosing cholangitis, short stature, and laxity of the large joints, linear hyperkeratotic follicular streaks, and acral hyperhidrosis. [13] Hypetrichosis has rarely been reported in Olmsted syndrome.

A 5-year-old male child presented with periorificial keratotic plaques associated with painful fissures and thickening of bilateral palms and soles [Figure 1]. He had fiscion contracture in both hands for the past 2 years. The patient was the only child of a second-degree consumptineous

marriage. There was no history of similar complaints in the family. On general examination, there was pallor and gradell! IAP (Indian Association of Pediatrics) protein energy malmatrition. On examination, the palms and soles showed keratoderma with flexion contracture of bilateral fingers [Figure 2]. The child was unable to walk because of the associated pain. There were hyperkeratotic plaques with fissuring around the perioral region, intranasal, external auditory canal, and in the intergluteal region [Figure 3]. The intranasal plaquescaused difficulty in breathing. Scalp examination showed hypotrichosis with sparse, short, and light-colored hair [Figure 4]. Light microscopic examination of hair shaft showed reduced pigmentation, reduced hair shaft diameter, and trichoschiuls. Similar findings along with folliculocentric papules and empty follicles were seen in trichoscopy [Figure 5]. Ophthalmic examination showed

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Original Research Article

Thyroid disorders in women with abnormal uterine bleeding: a tertiary hospital based cross sectional study from Puducherry, India

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ABSTRACT

Background: The most common complaint with which women present for gynecological consultation is abnormal uterine bleeding which may be due to varied etiology. Among non-structural causes for AUB, endocrinological disorders like thyroid dysfunction is very common. Thyroid dysfunction is often overlooked, and unnecessary hormonal or surgical interventions are performed in patients with AUB.

Methods: This is a hospital based cross sectional study carried out in Sri Manakula Vinayagar Medical College and Hospital, Puducherry between January 2017 to June 2017 for a period of 6 months and the participants were 200 women attending gynecological OPD with complaints of abnormal uterine bleeding. After obtaining a written informed consent from the participants a detailed history and complete examination including a thorough gynecological examination was performed. A transvaginal ultrasound examination to note for any structural causes for AUB was performed. Thyroid function test (FT3, FT4, TSH) was performed in all study participants and they were then categorized into euthyroid, hypothyroid, hyperthyroid, subclinical hypo or hyperthyroid based on the results. After preliminary preparation all participants were subjected for an endometrial biopsy in the outpatient department and the tissue obtained was sent for histopathological analysis. All the information was tabulated and analyzed using SPSS 22 version with descriptive and inferential statistics (chi square test). A p value of < 0.05 was considered as statistically significant.

Results: Heavy menstrual bleeding was the most common menstrual abnormality found in 85% of the study participants. 77% had structural causes for AUB whereas 23% had non-structural causes. 79.5% of the patients with AUB were euthyroid whereas 20.5% had some form of thyroid dysfunction. Subclinical hypothyroidism was the most common thyroid dysfunction (15.5%) in this study followed by hypothyroidism (3.5%). Only 1.5% of patients had hyperthyroidism. In the present study no, significant association was found between any particular thyroid dysfunction and specific menstrual pattern or endometrial pattern in histopathology.

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